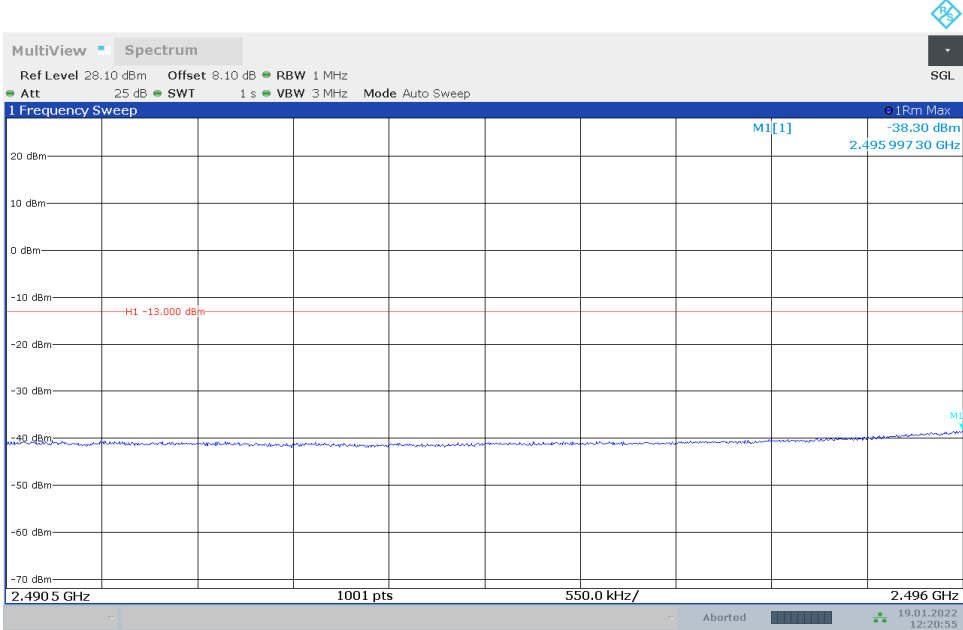
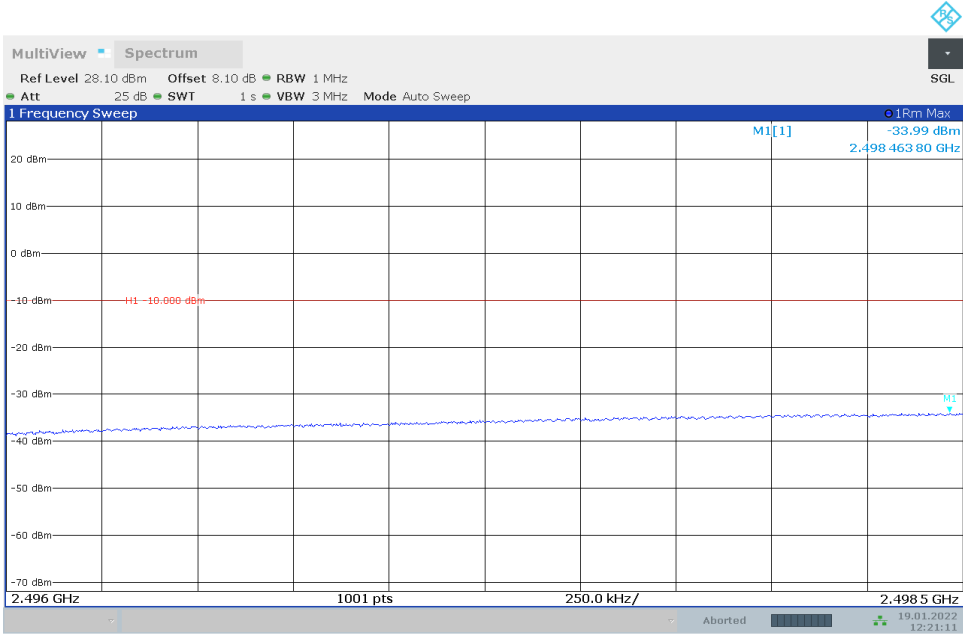


12:16:59 19.01.2022

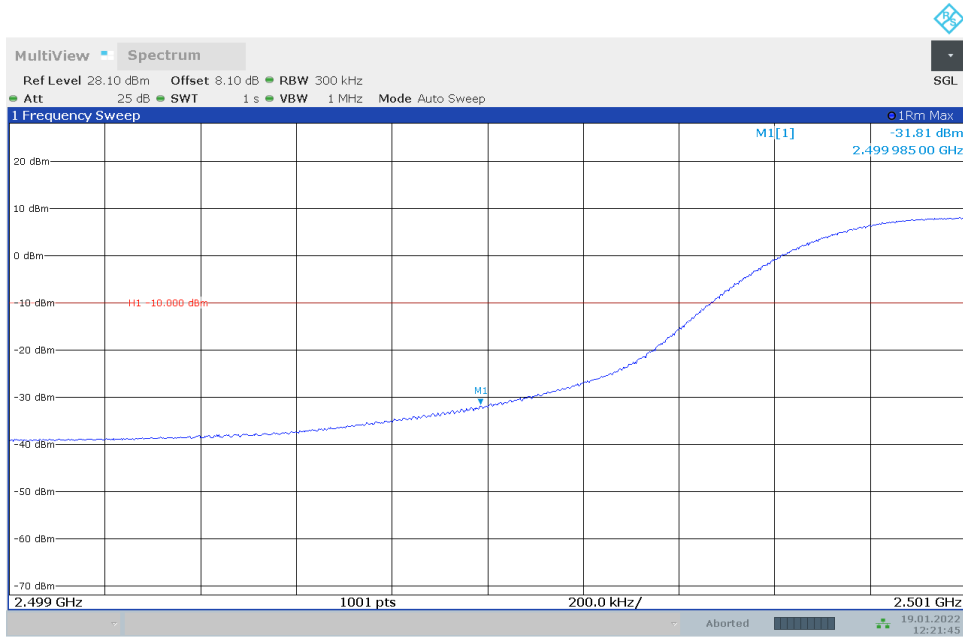
5.2.41 CA_7C_TM3_LCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



12:20:55 19.01.2022

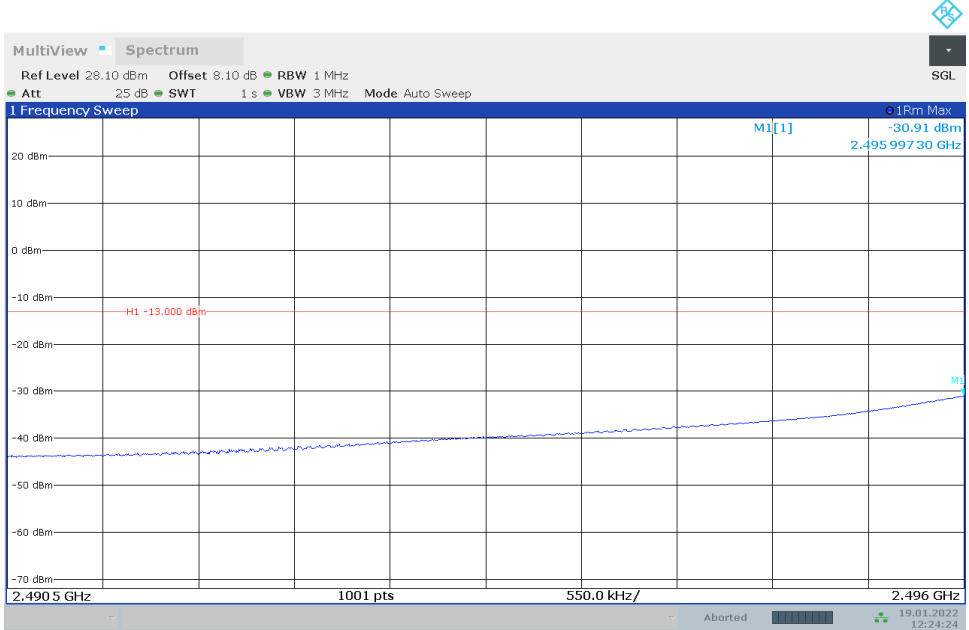


12:21:11 19.01.2022

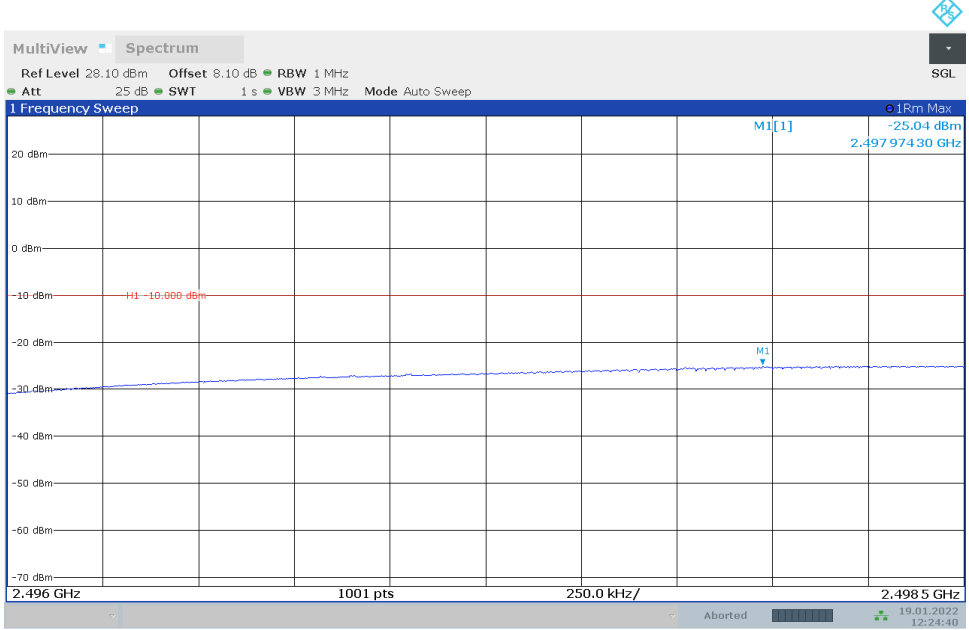


12:21:46 19.01.2022

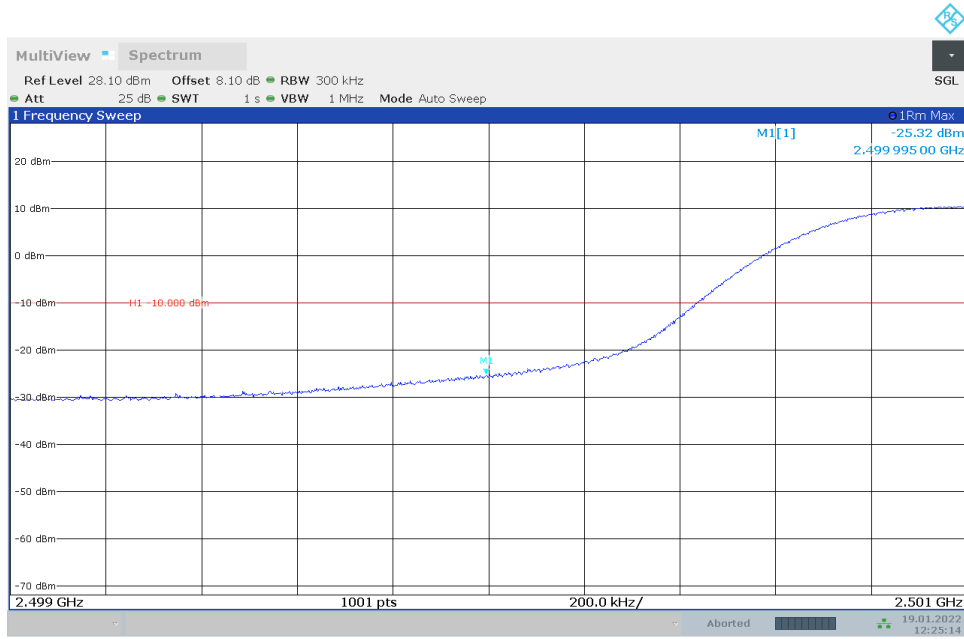
5.2.42 CA_7C_TM3_LCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



12:24:25 19.01.2022

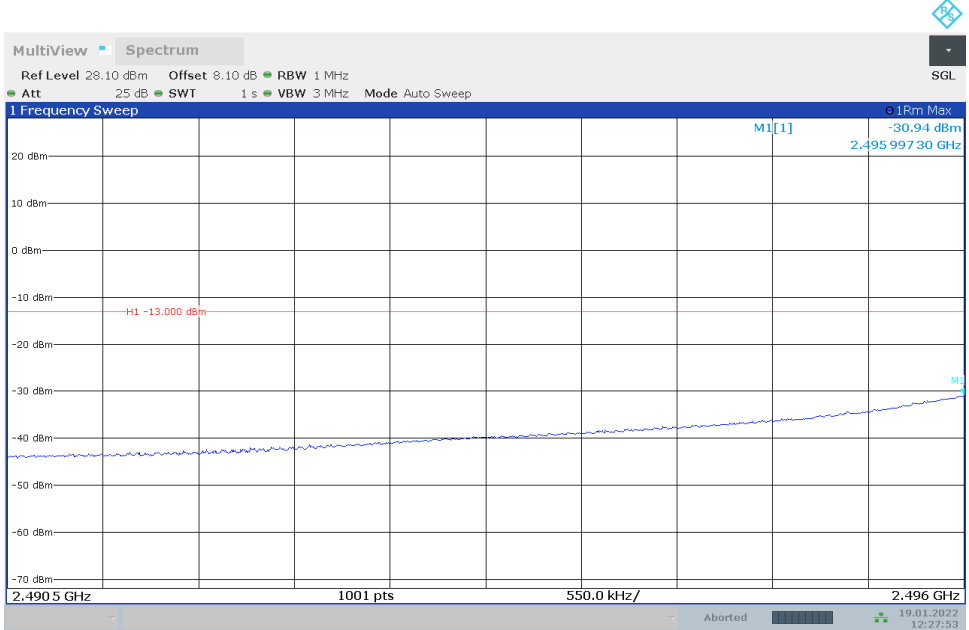


12:24:40 19.01.2022

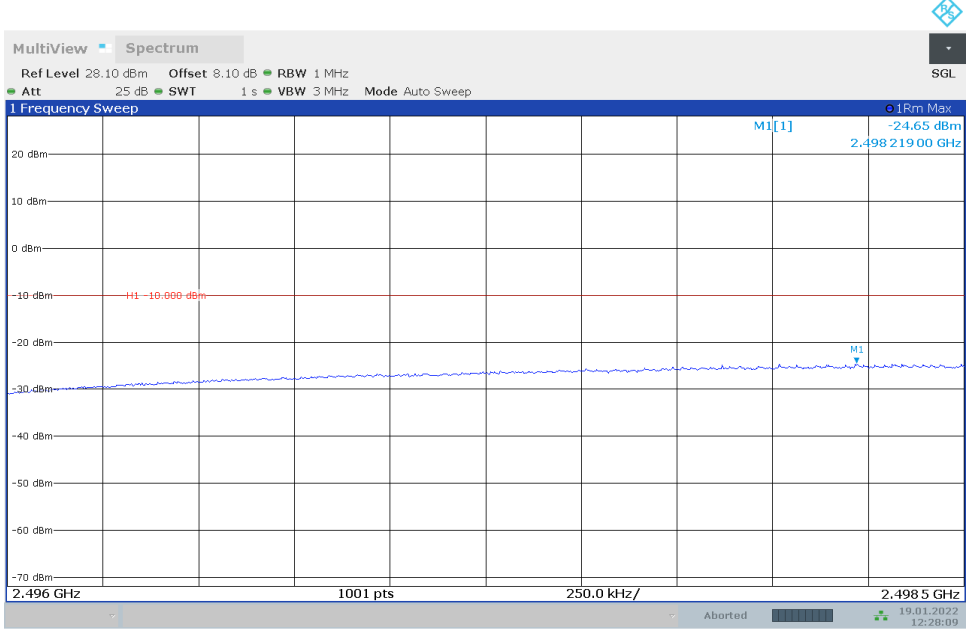


12:25:15 19.01.2022

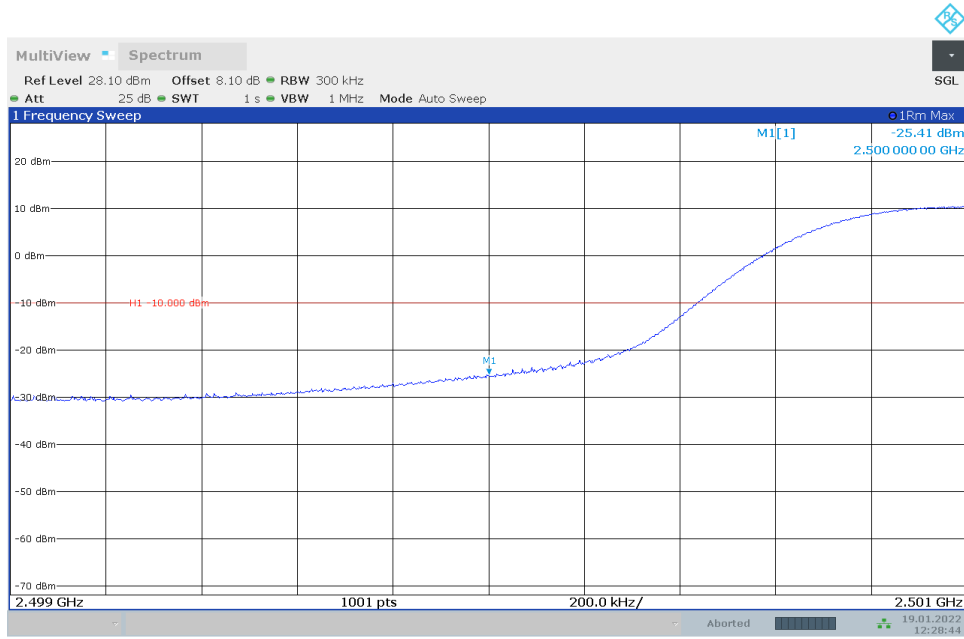
5.2.43 CA_7C_TM3_LCH_15MHZ_15MHZ_PCCRB16#0_SCCRB0#0



12:27:54 19.01.2022

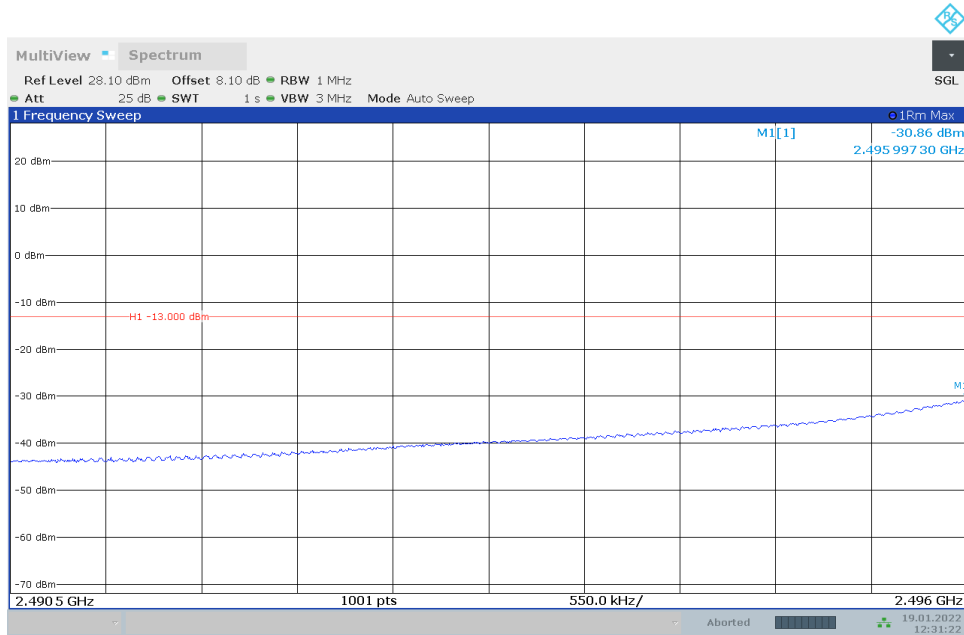


12:28:09 19.01.2022

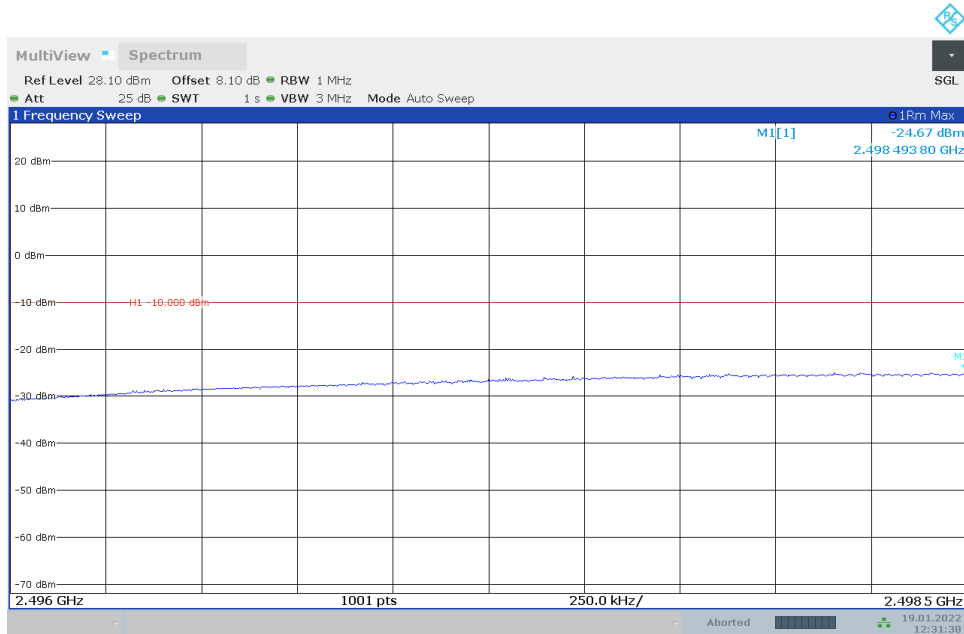


12:28:44 19.01.2022

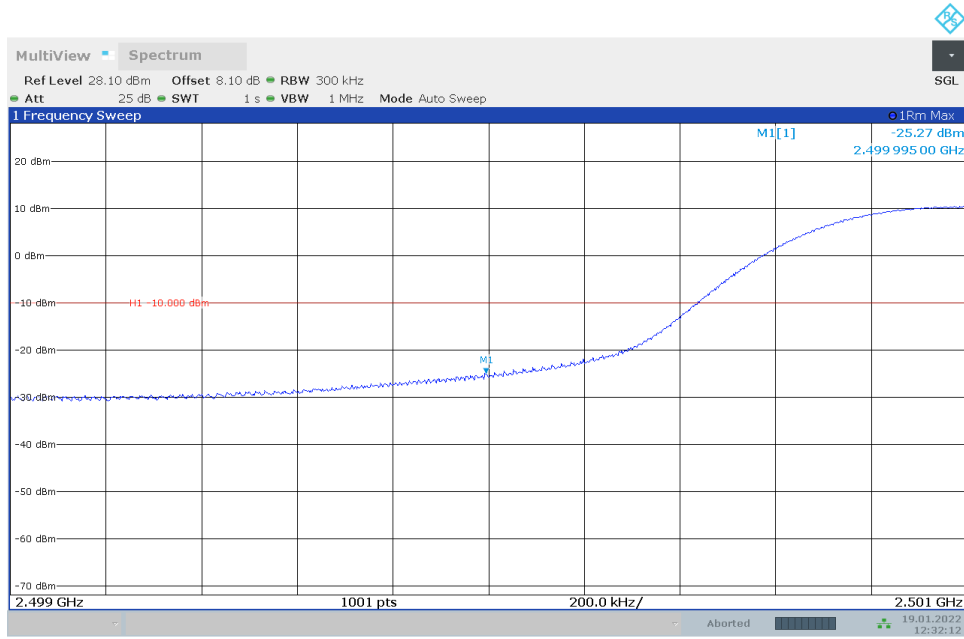
5.2.44 CA_7C_TM3_LCH_15MHZ_15MHZ_PCCRB75#0_SCCRB0#0



12:31:22 19.01.2022

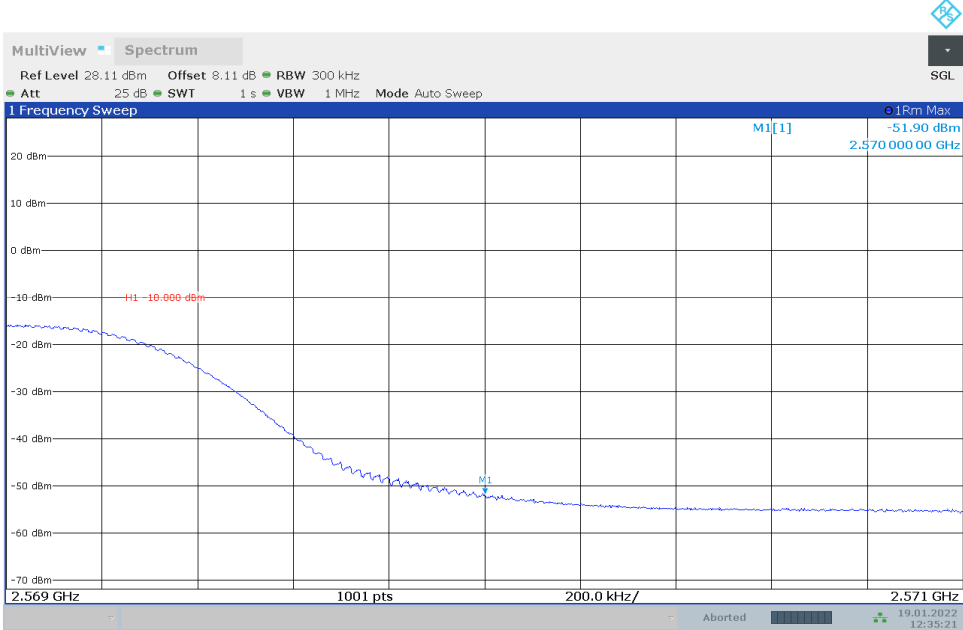


12:31:38 19.01.2022

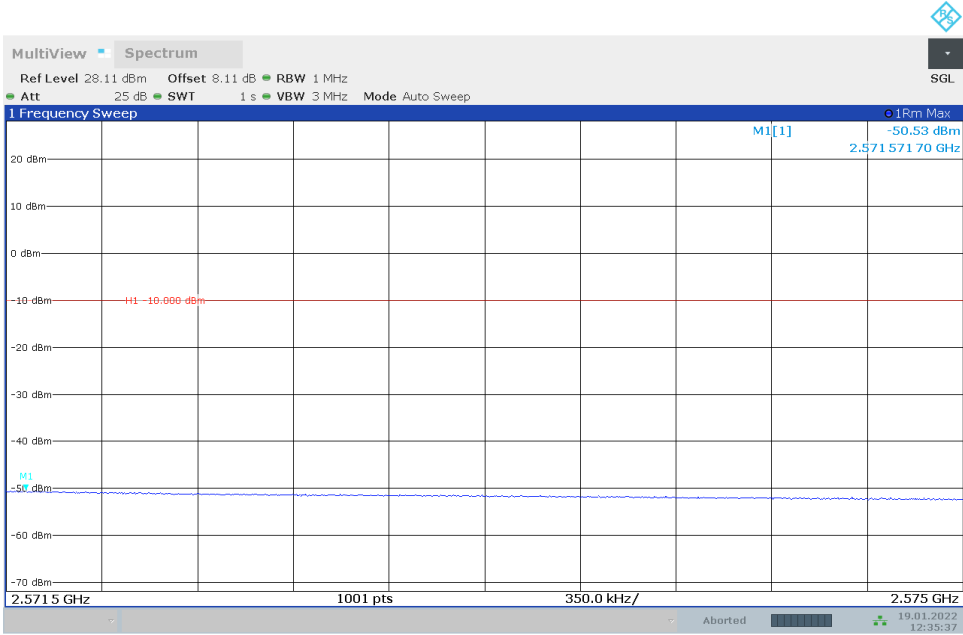


12:32:13 19.01.2022

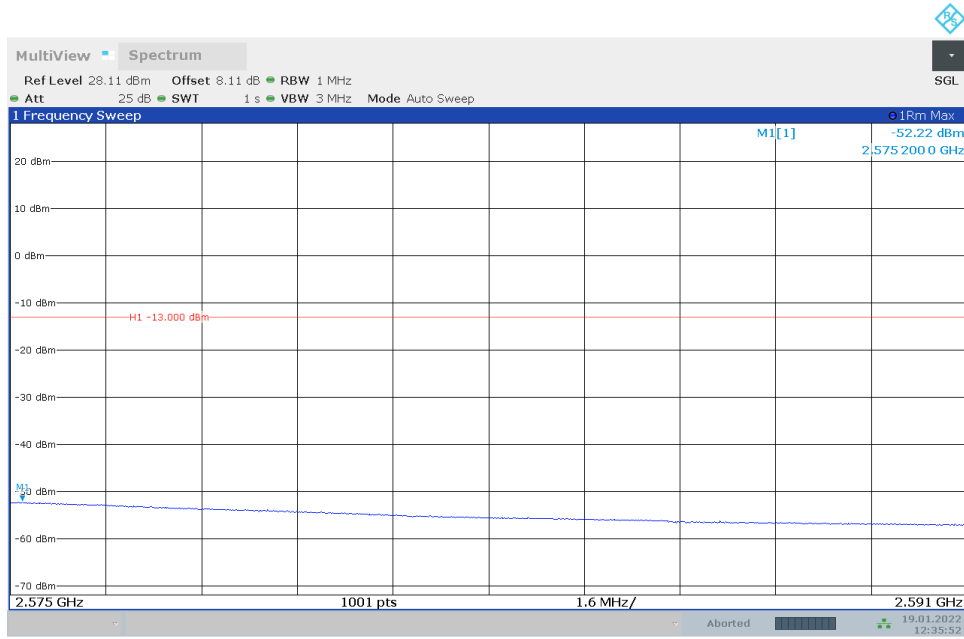
5.2.45 CA_7C_TM3_HCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



12:35:22 19.01.2022

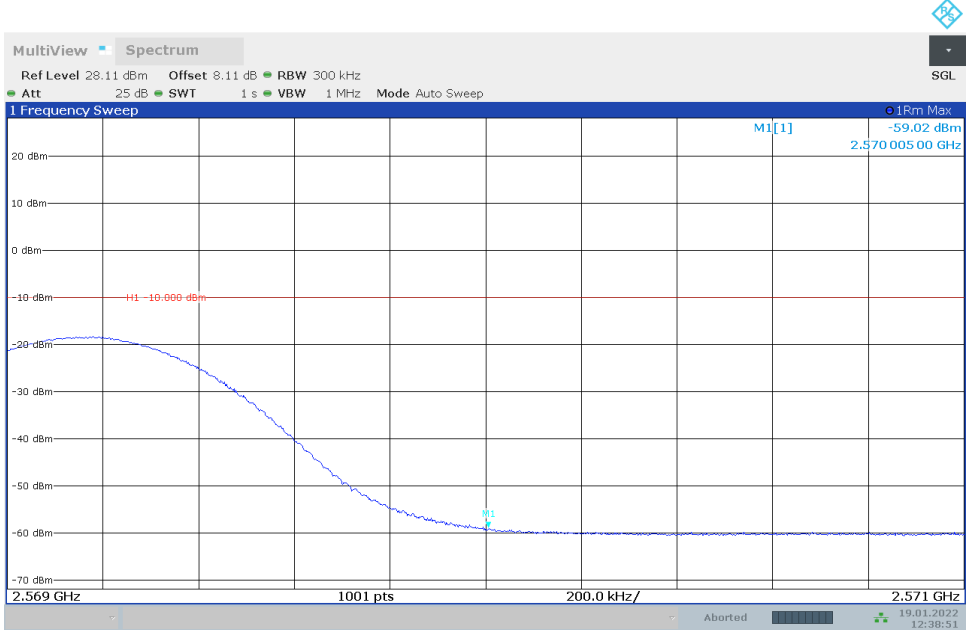


12:35:37 19.01.2022

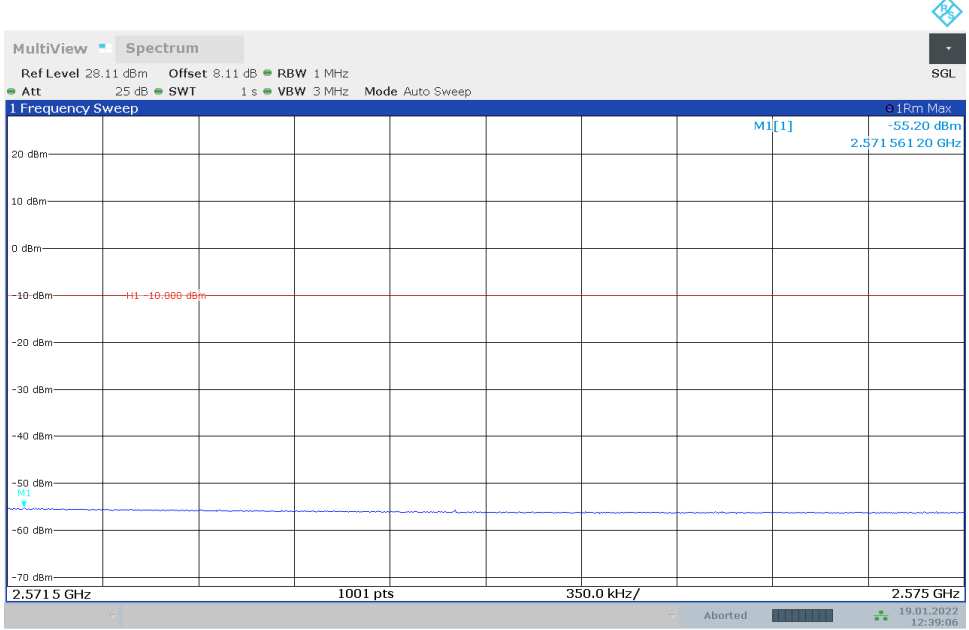


12:35:53 19.01.2022

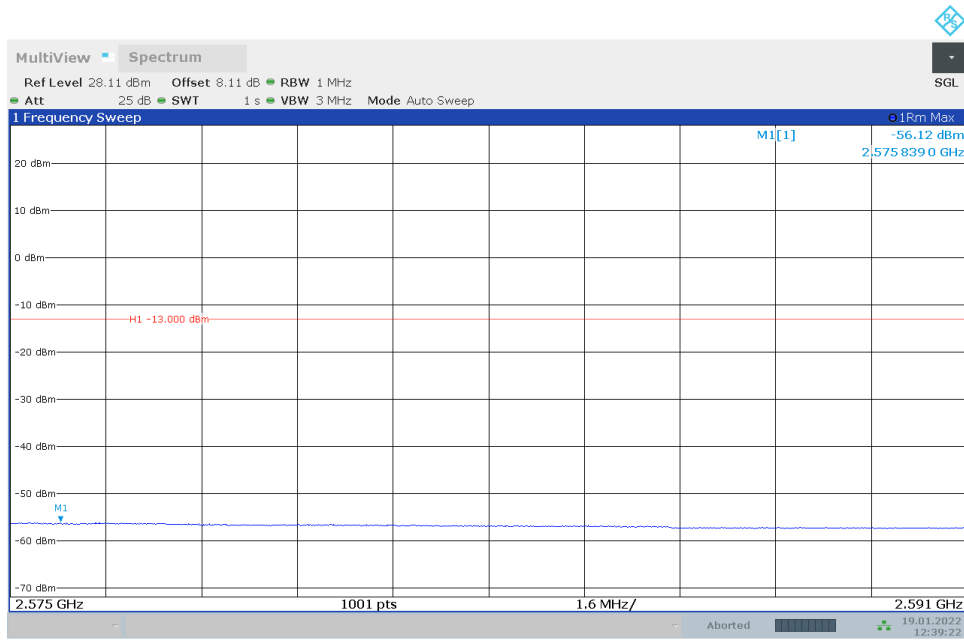
5.2.46 CA_7C_TM3_HCH_15MHZ_15MHZ_PCCRB0#0_SCCRB1#74



12:38:51 19.01.2022

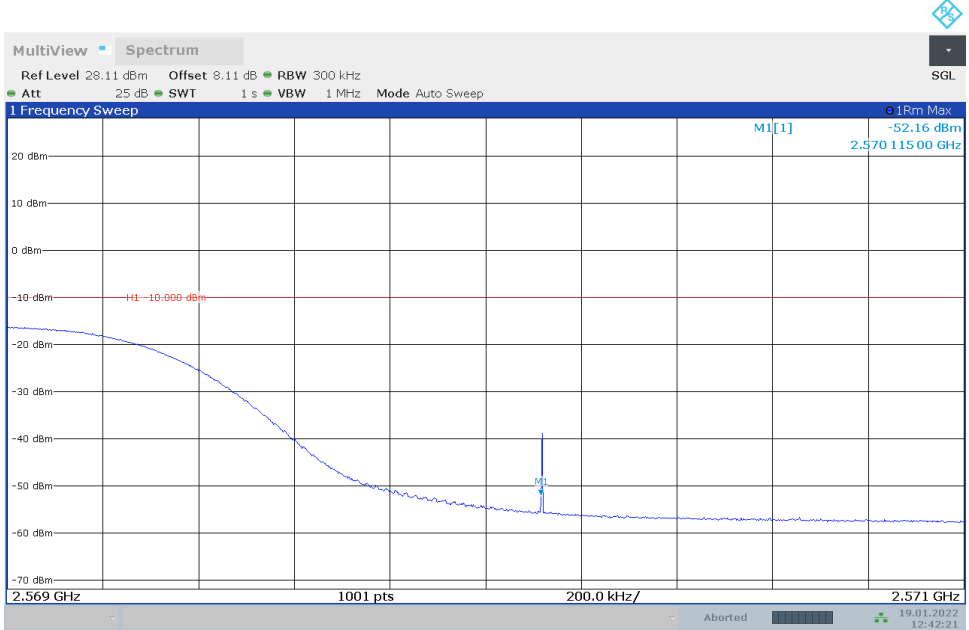


12:39:07 19.01.2022

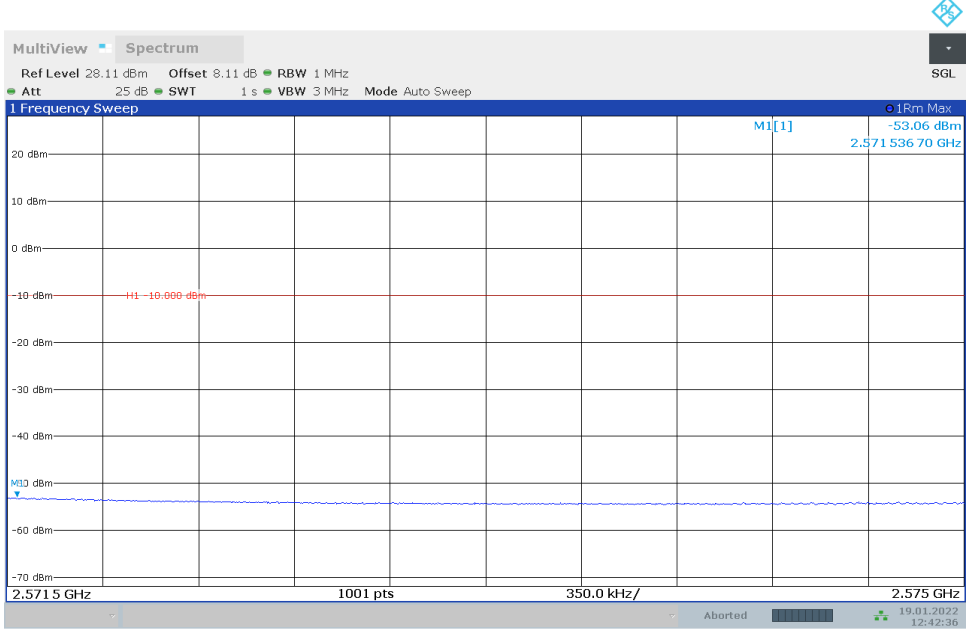


12:39:22 19.01.2022

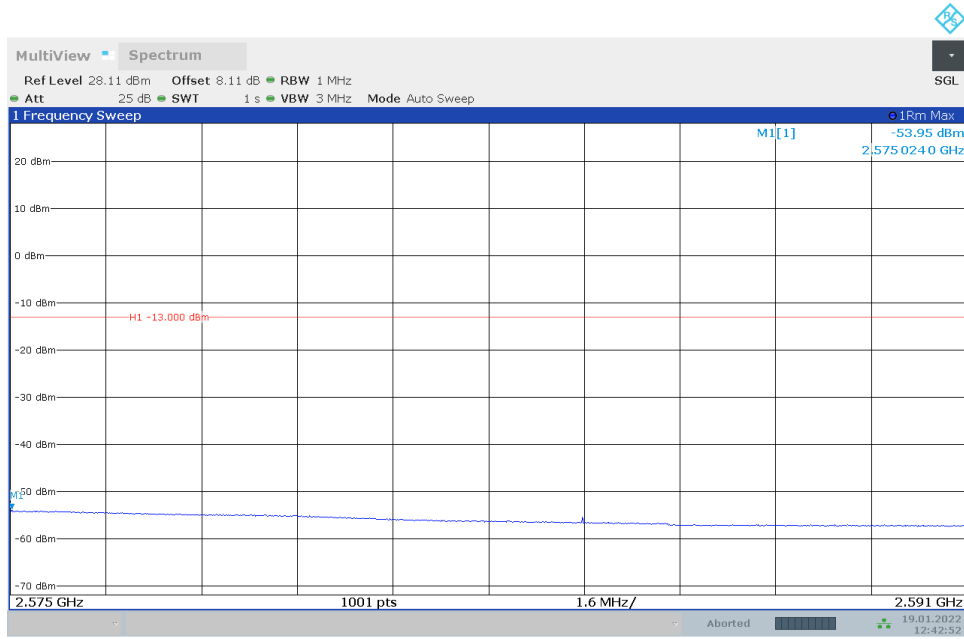
5.2.47 CA_7C_TM3_HCH_15MHZ_15MHZ_PCCRB0#0_SCCRB16#59



12:42:21 19.01.2022

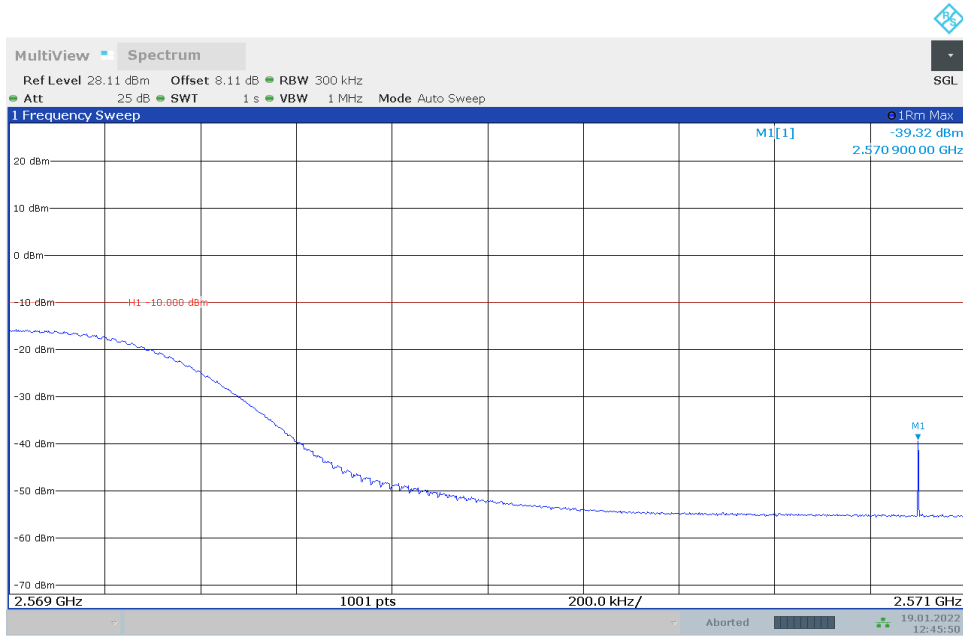


12:42:36 19.01.2022

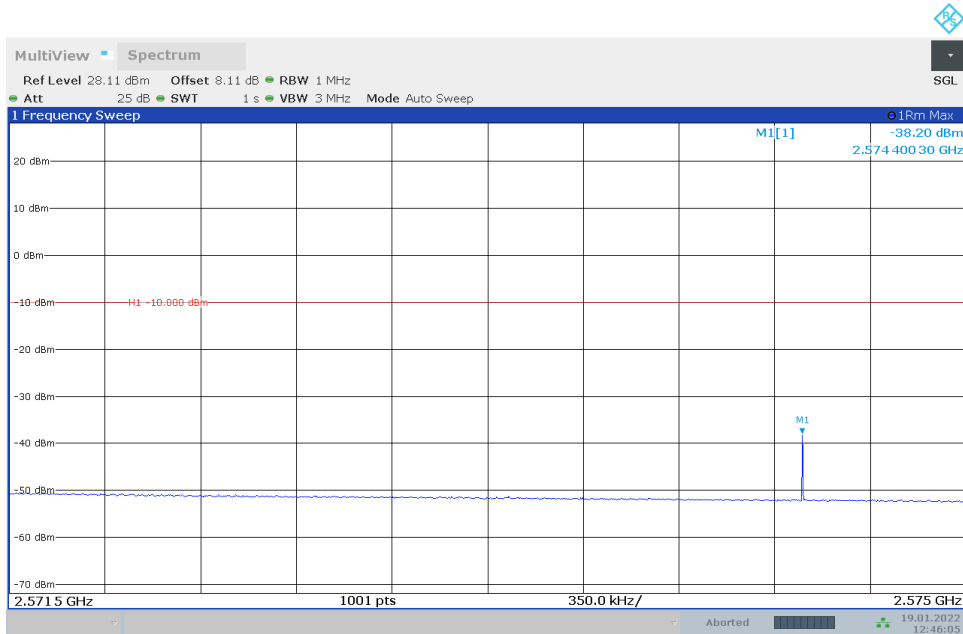


12:42:52 19.01.2022

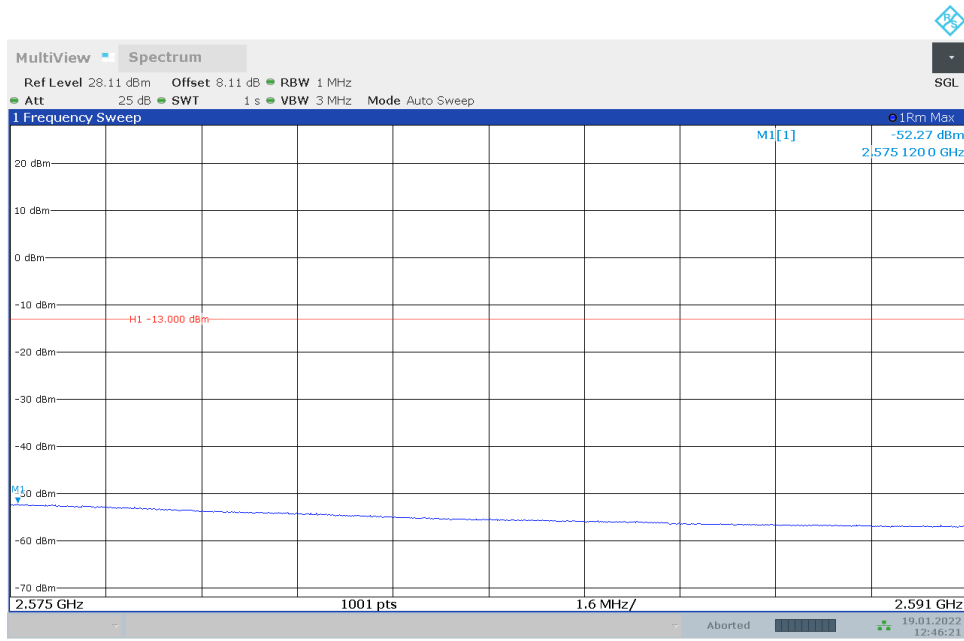
5.2.48 CA_7C_TM3_HCH_15MHZ_15MHZ_PCCRB0#0_SCCRB75#0



12:45:50 19.01.2022



12:46:06 19.01.2022



12:46:21 19.01.2022

6. APPENDIX F - SPURIOUS EMISSION AT ANTENNA TERMINAL

6.1 TEST RESULTS

Spurious Emission at Antenna Terminal										
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
CA_7C	TM1	20+20	LCH	RB100#0	RB100#0	QPSK	0.03	-77.45	-55	PASS
				RB100#0	RB100#0	QPSK	0.45	-83.42	-45	PASS
				RB100#0	RB100#0	QPSK	537.07	-48.75	-25	PASS
				RB100#0	RB100#0	QPSK	2487.57	-30.39	-25	PASS
				RB1#0	RB0#0	QPSK	0.03	-77.89	-55	PASS
				RB1#0	RB0#0	QPSK	0.66	-83.21	-45	PASS
				RB1#0	RB0#0	QPSK	542.52	-47.68	-25	PASS
				RB1#0	RB0#0	QPSK	2489.48	-32.64	-25	PASS
			MCH	RB100#0	RB100#0	QPSK	0.03	-78.01	-55	PASS
				RB100#0	RB100#0	QPSK	0.64	-82.74	-45	PASS
				RB100#0	RB100#0	QPSK	546.94	-47.97	-25	PASS
				RB100#0	RB100#0	QPSK	2489.48	-38.84	-25	PASS
				RB1#0	RB0#0	QPSK	0.03	-78.00	-55	PASS
				RB1#0	RB0#0	QPSK	0.25	-83.26	-45	PASS
				RB1#0	RB0#0	QPSK	537.04	-48.99	-25	PASS
				RB1#0	RB0#0	QPSK	26187.95	-44.68	-25	PASS
			HCH	RB100#0	RB100#0	QPSK	0.03	-77.89	-55	PASS
				RB100#0	RB100#0	QPSK	0.68	-83.34	-45	PASS
				RB100#0	RB100#0	QPSK	552.08	-48.65	-25	PASS
				RB100#0	RB100#0	QPSK	25194.11	-44.45	-25	PASS
				RB1#0	RB0#0	QPSK	0.03	-77.79	-55	PASS
				RB1#0	RB0#0	QPSK	0.64	-82.72	-45	PASS
				RB1#0	RB0#0	QPSK	570.26	-49.02	-25	PASS
				RB1#0	RB0#0	QPSK	2655.23	-44.87	-25	PASS

Spurious Emission at Antenna Terminal										
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
CA_7C	TM1	15+15	LCH	RB75#0	RB75#0	QPSK	0.03	-77.44	-55	PASS
				RB75#0	RB75#0	QPSK	0.45	-82.53	-45	PASS
				RB75#0	RB75#0	QPSK	542.69	-48.56	-25	PASS
				RB75#0	RB75#0	QPSK	2486.29	-27.70	-25	PASS
				RB1#0	RB0#0	QPSK	0.03	-77.16	-55	PASS
				RB1#0	RB0#0	QPSK	0.15	-83.38	-45	PASS
				RB1#0	RB0#0	QPSK	522.54	-48.54	-25	PASS
				RB1#0	RB0#0	QPSK	2489.48	-31.92	-25	PASS
			MCH	RB75#0	RB75#0	QPSK	0.03	-77.26	-55	PASS
				RB75#0	RB75#0	QPSK	0.42	-83.31	-45	PASS
				RB75#0	RB75#0	QPSK	636.08	-48.46	-25	PASS
				RB75#0	RB75#0	QPSK	26254.89	-44.79	-25	PASS
				RB1#0	RB0#0	QPSK	0.03	-77.34	-55	PASS
				RB1#0	RB0#0	QPSK	0.93	-79.76	-45	PASS
				RB1#0	RB0#0	QPSK	549.94	-48.37	-25	PASS
				RB1#0	RB0#0	QPSK	26275.92	-44.48	-25	PASS
			HCH	RB75#0	RB75#0	QPSK	0.03	-77.12	-55	PASS
				RB75#0	RB75#0	QPSK	0.44	-82.31	-45	PASS
				RB75#0	RB75#0	QPSK	532.65	-48.81	-25	PASS
				RB75#0	RB75#0	QPSK	2668.61	-44.74	-25	PASS
				RB1#0	RB0#0	QPSK	0.03	-77.05	-55	PASS
				RB1#0	RB0#0	QPSK	0.66	-82.80	-45	PASS
				RB1#0	RB0#0	QPSK	540.51	-48.31	-25	PASS
				RB1#0	RB0#0	QPSK	26237.04	-44.43	-25	PASS

Spurious Emission at Antenna Terminal										
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
CA_7C	TM2	20+20	LCH	RB100#0	RB100#0	16QAM	0.03	-77.80	-55	PASS
				RB100#0	RB100#0	16QAM	24.21	-82.90	-45	PASS
				RB100#0	RB100#0	16QAM	543.9	-48.57	-25	PASS
				RB100#0	RB100#0	16QAM	2482.47	-28.64	-25	PASS
				RB1#0	RB0#0	16QAM	0.03	-77.78	-55	PASS
				RB1#0	RB0#0	16QAM	0.42	-81.76	-45	PASS
				RB1#0	RB0#0	16QAM	551.66	-48.91	-25	PASS
				RB1#0	RB0#0	16QAM	2488.84	-33.33	-25	PASS
			MCH	RB100#0	RB100#0	16QAM	0.03	-77.73	-55	PASS
				RB100#0	RB100#0	16QAM	0.45	-83.47	-45	PASS
				RB100#0	RB100#0	16QAM	546.57	-48.31	-25	PASS
				RB100#0	RB100#0	16QAM	2488.84	-37.16	-25	PASS
				RB1#0	RB0#0	16QAM	0.03	-77.99	-55	PASS
				RB1#0	RB0#0	16QAM	0.4	-82.91	-45	PASS
				RB1#0	RB0#0	16QAM	553.24	-48.50	-25	PASS
				RB1#0	RB0#0	16QAM	26225.56	-44.36	-25	PASS
			HCH	RB100#0	RB100#0	16QAM	0.03	-77.90	-55	PASS
				RB100#0	RB100#0	16QAM	0.2	-83.98	-45	PASS
				RB100#0	RB100#0	16QAM	551.54	-48.61	-25	PASS
				RB100#0	RB100#0	16QAM	22928.5	-44.18	-25	PASS
				RB1#0	RB0#0	16QAM	0.03	-77.62	-55	PASS
				RB1#0	RB0#0	16QAM	0.45	-83.24	-45	PASS
				RB1#0	RB0#0	16QAM	620.95	-48.07	-25	PASS
				RB1#0	RB0#0	16QAM	25204.95	-44.45	-25	PASS

Spurious Emission at Antenna Terminal										
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
CA_7C	TM2	15+15	LCH	RB75#0	RB75#0	16QAM	0.03	-77.30	-55	PASS
				RB75#0	RB75#0	16QAM	0.16	-82.80	-45	PASS
				RB75#0	RB75#0	16QAM	551.98	-48.63	-25	PASS
				RB75#0	RB75#0	16QAM	2487.57	-25.16	-25	PASS
				RB1#0	RB0#0	16QAM	0.03	-77.17	-55	PASS
				RB1#0	RB0#0	16QAM	0.64	-83.31	-45	PASS
				RB1#0	RB0#0	16QAM	550.07	-48.26	-25	PASS
				RB1#0	RB0#0	16QAM	26263.17	-43.94	-25	PASS
			MCH	RB75#0	RB75#0	16QAM	0.03	-77.36	-55	PASS
				RB75#0	RB75#0	16QAM	0.49	-82.36	-45	PASS
				RB75#0	RB75#0	16QAM	552.2	-48.81	-25	PASS
				RB75#0	RB75#0	16QAM	26409.8	-44.63	-25	PASS
				RB1#0	RB0#0	16QAM	0.03	-77.28	-55	PASS
				RB1#0	RB0#0	16QAM	23.78	-83.91	-45	PASS
				RB1#0	RB0#0	16QAM	542.79	-48.08	-25	PASS
				RB1#0	RB0#0	16QAM	23332.66	-44.11	-25	PASS
			HCH	RB75#0	RB75#0	16QAM	0.03	-77.26	-55	PASS
				RB75#0	RB75#0	16QAM	0.4	-83.42	-45	PASS
				RB75#0	RB75#0	16QAM	547.08	-48.43	-25	PASS
				RB75#0	RB75#0	16QAM	26281.02	-44.91	-25	PASS
				RB1#0	RB0#0	16QAM	0.03	-77.22	-55	PASS
				RB1#0	RB0#0	16QAM	0.43	-82.84	-45	PASS
				RB1#0	RB0#0	16QAM	547.18	-49.03	-25	PASS
				RB1#0	RB0#0	16QAM	26297.6	-44.79	-25	PASS

Spurious Emission at Antenna Terminal										
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
CA_7C	TM3	20+20	LCH	RB100#0	RB100#0	64QAM	0.03	-77.65	-55	PASS
				RB100#0	RB100#0	64QAM	0.66	-82.52	-45	PASS
				RB100#0	RB100#0	64QAM	552	-48.58	-25	PASS
				RB100#0	RB100#0	64QAM	2485.02	-28.78	-25	PASS
				RB1#0	RB0#0	64QAM	0.03	-77.85	-55	PASS
				RB1#0	RB0#0	64QAM	0.4	-83.09	-45	PASS
				RB1#0	RB0#0	64QAM	537.67	-48.35	-25	PASS
				RB1#0	RB0#0	64QAM	26293.77	-44.97	-25	PASS
			MCH	RB100#0	RB100#0	64QAM	0.03	-78.02	-55	PASS
				RB100#0	RB100#0	64QAM	0.49	-82.77	-45	PASS
				RB100#0	RB100#0	64QAM	551.88	-48.64	-25	PASS
				RB100#0	RB100#0	64QAM	2489.48	-37.00	-25	PASS
				RB1#0	RB0#0	64QAM	0.03	-77.91	-55	PASS
				RB1#0	RB0#0	64QAM	0.16	-82.94	-45	PASS
				RB1#0	RB0#0	64QAM	534.64	-48.55	-25	PASS
				RB1#0	RB0#0	64QAM	26324.37	-44.94	-25	PASS
			HCH	RB100#0	RB100#0	64QAM	0.03	-77.70	-55	PASS
				RB100#0	RB100#0	64QAM	0.43	-83.61	-45	PASS
				RB100#0	RB100#0	64QAM	608.85	-49.01	-25	PASS
				RB100#0	RB100#0	64QAM	2684.55	-44.40	-25	PASS
				RB1#0	RB0#0	64QAM	0.03	-77.66	-55	PASS
				RB1#0	RB0#0	64QAM	24.67	-83.10	-45	PASS
				RB1#0	RB0#0	64QAM	545.31	-48.57	-25	PASS
				RB1#0	RB0#0	64QAM	26363.26	-43.98	-25	PASS

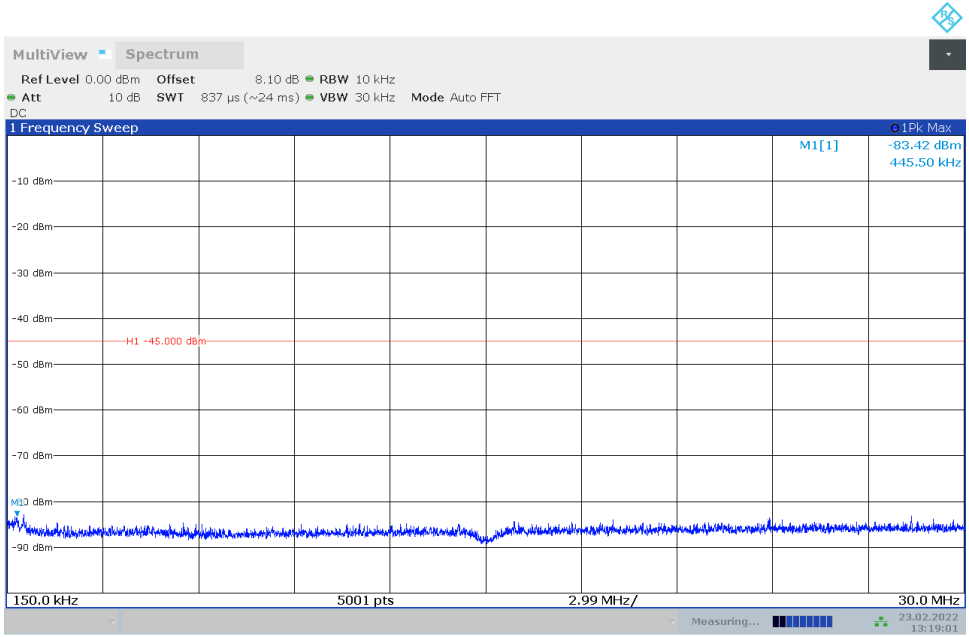
Spurious Emission at Antenna Terminal										
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	PCC_RB	SCC_RB	Modulation	Frequency [MHz]	Power [dBm]	Limit [dBm]	Verdict
CA_7C	TM3	15+15	LCH	RB75#0	RB75#0	64QAM	0.03	-77.44	-55	PASS
				RB75#0	RB75#0	64QAM	0.43	-83.16	-45	PASS
				RB75#0	RB75#0	64QAM	552.15	-48.75	-25	PASS
				RB75#0	RB75#0	64QAM	25173.39	-43.58	-25	PASS
				RB1#0	RB0#0	64QAM	0.03	-77.29	-55	PASS
				RB1#0	RB0#0	64QAM	0.49	-83.30	-45	PASS
				RB1#0	RB0#0	64QAM	547.91	-49.05	-25	PASS
				RB1#0	RB0#0	64QAM	23295.05	-44.47	-25	PASS
			MCH	RB75#0	RB75#0	64QAM	0.03	-77.04	-55	PASS
				RB75#0	RB75#0	64QAM	0.43	-83.50	-45	PASS
				RB75#0	RB75#0	64QAM	551.66	-48.25	-25	PASS
				RB75#0	RB75#0	64QAM	25549.19	-44.73	-25	PASS
				RB1#0	RB0#0	64QAM	0.03	-77.15	-55	PASS
				RB1#0	RB0#0	64QAM	0.48	-82.41	-45	PASS
				RB1#0	RB0#0	64QAM	528.26	-48.37	-25	PASS
				RB1#0	RB0#0	64QAM	26308.44	-44.09	-25	PASS
			HCH	RB75#0	RB75#0	64QAM	0.03	-77.34	-55	PASS
				RB75#0	RB75#0	64QAM	0.65	-83.54	-45	PASS
				RB75#0	RB75#0	64QAM	551.71	-48.62	-25	PASS
				RB75#0	RB75#0	64QAM	23456.33	-43.79	-25	PASS
				RB1#0	RB0#0	64QAM	0.03	-77.17	-55	PASS
				RB1#0	RB0#0	64QAM	0.18	-83.17	-45	PASS
				RB1#0	RB0#0	64QAM	548.71	-48.70	-25	PASS
				RB1#0	RB0#0	64QAM	23302.06	-44.84	-25	PASS

6.2 TEST PLOTS

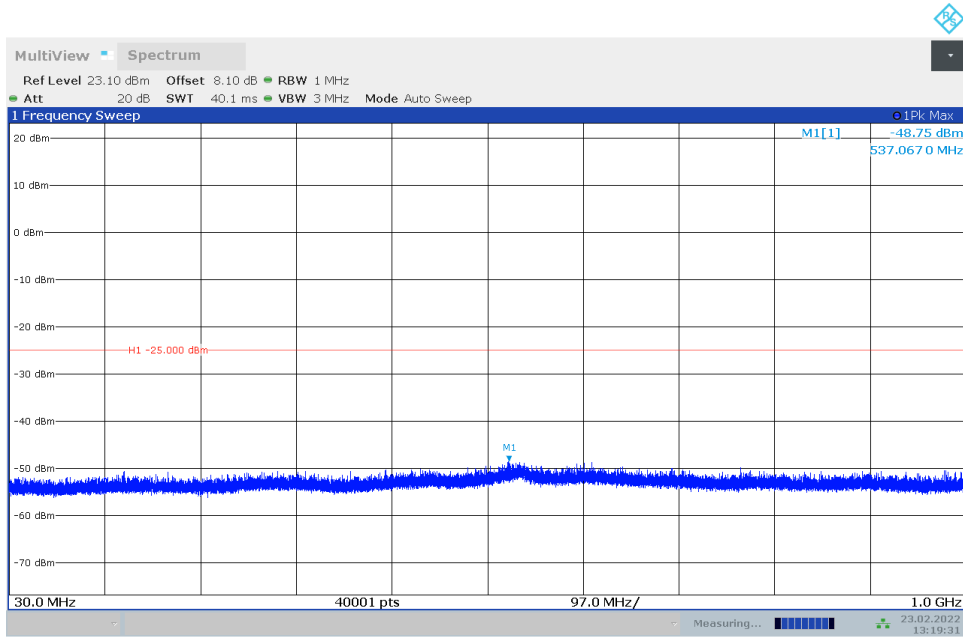
6.2.1 CA_7C_TM1_LCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



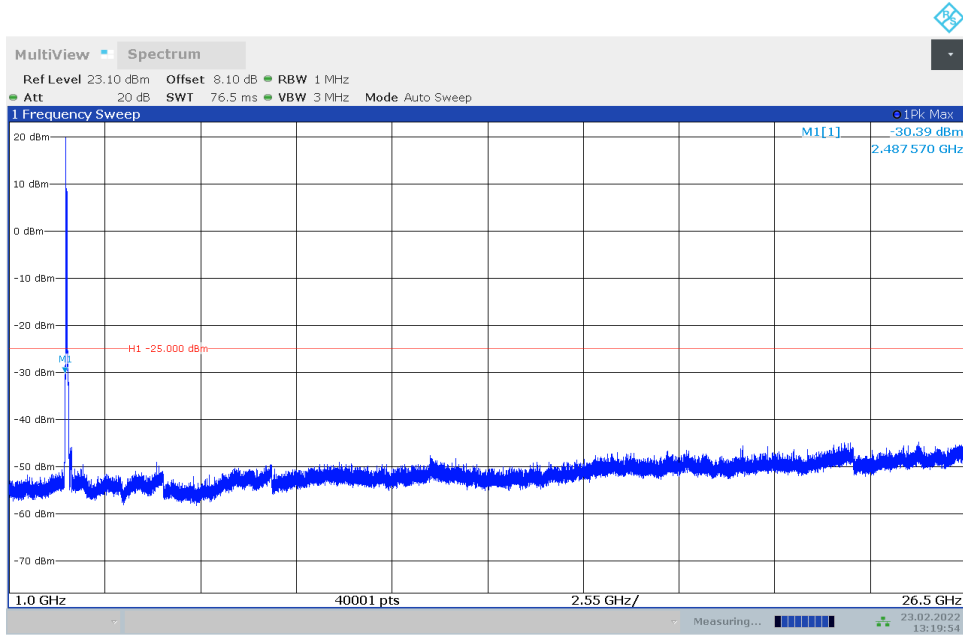
13:18:31 23.02.2022



13:19:01 23.02.2022

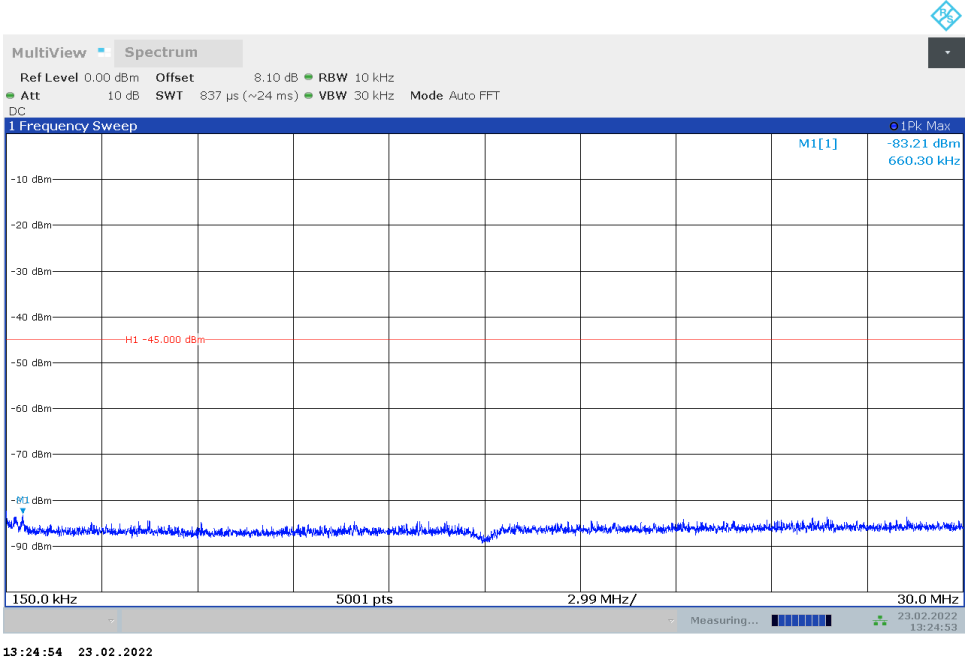
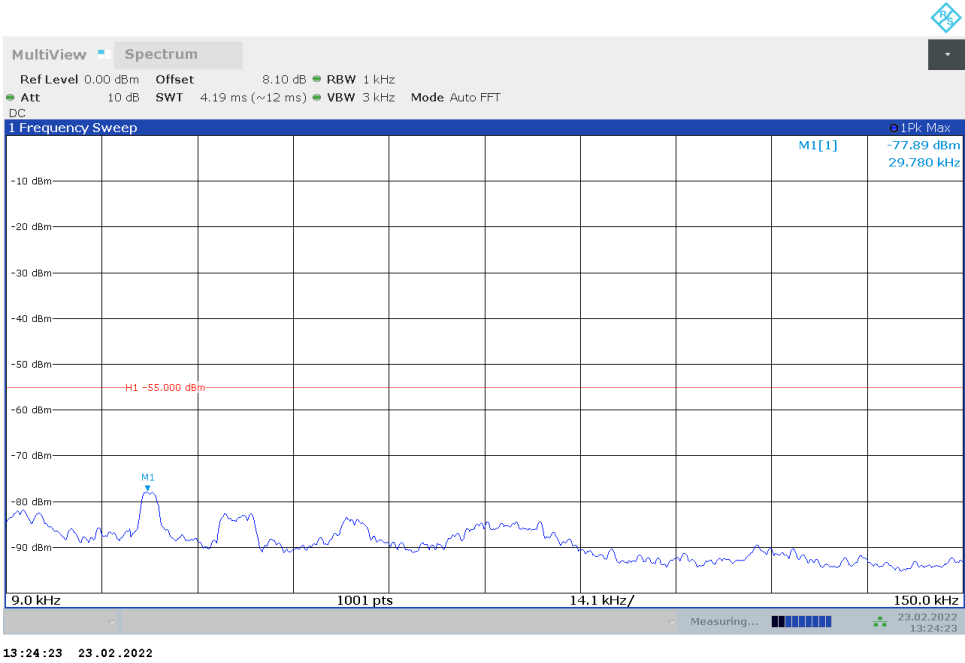


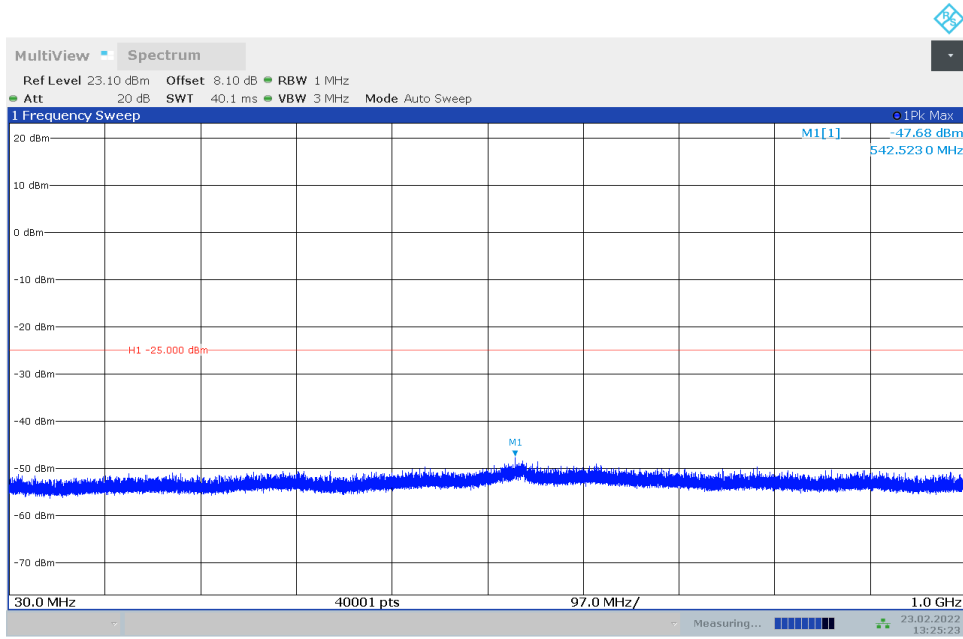
13:19:32 23.02.2022



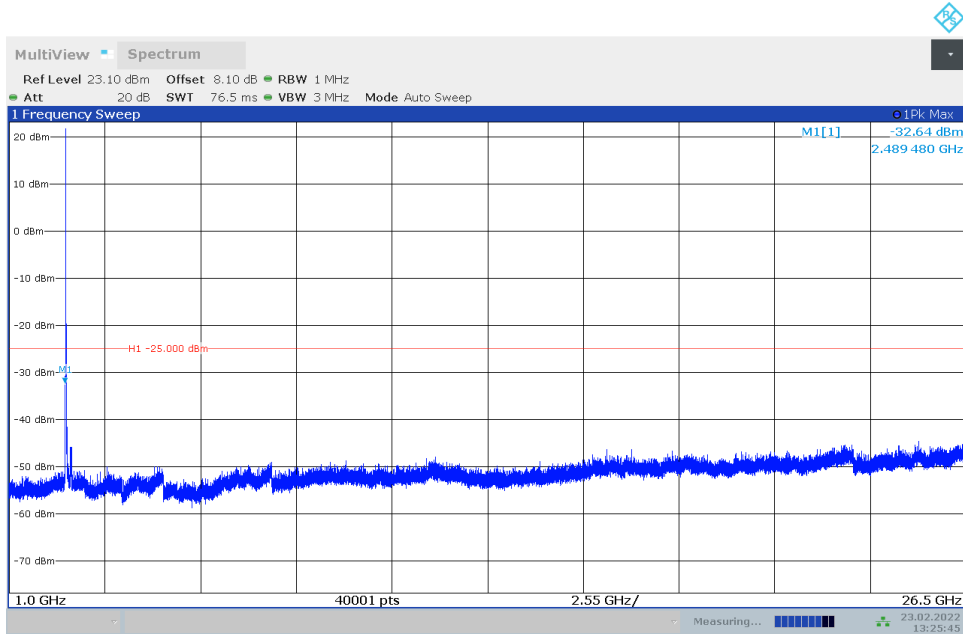
13:19:54 23.02.2022

6.2.2 CA_7C_TM1_LCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



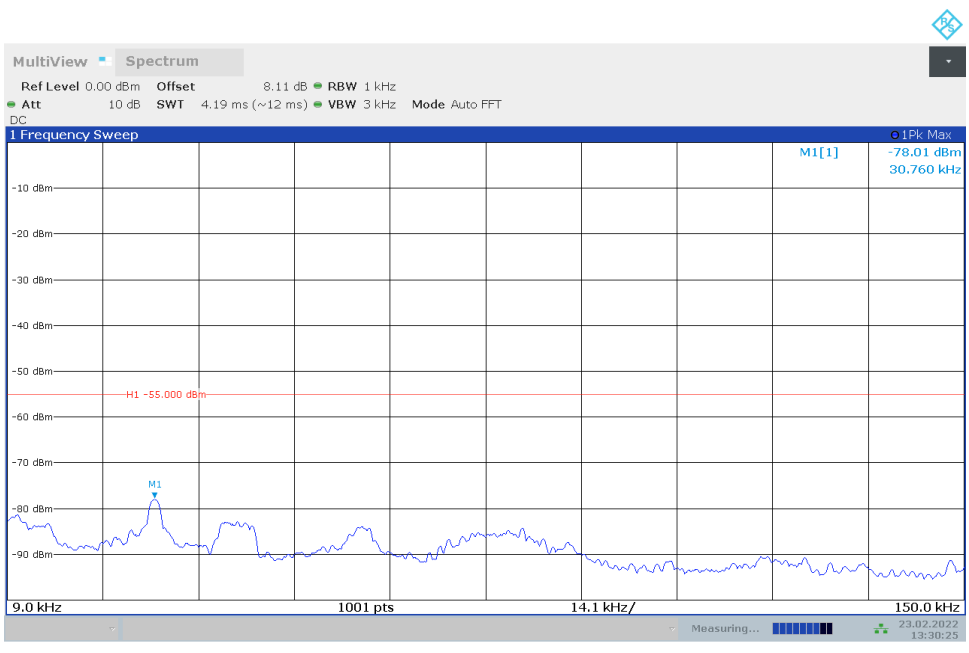


13:25:24 23.02.2022

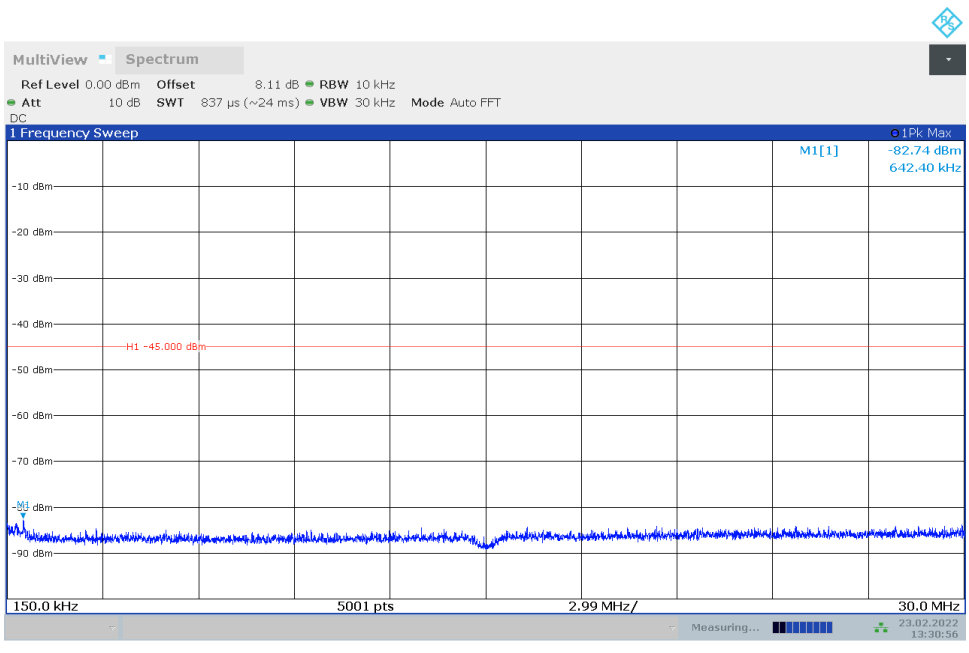


13:25:46 23.02.2022

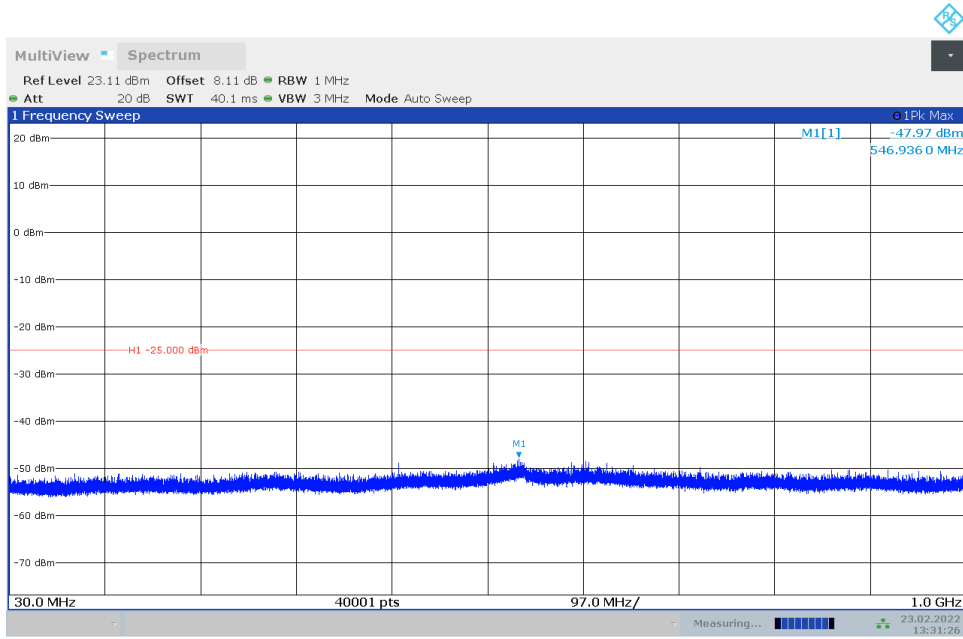
6.2.3 CA_7C_TM1_MCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



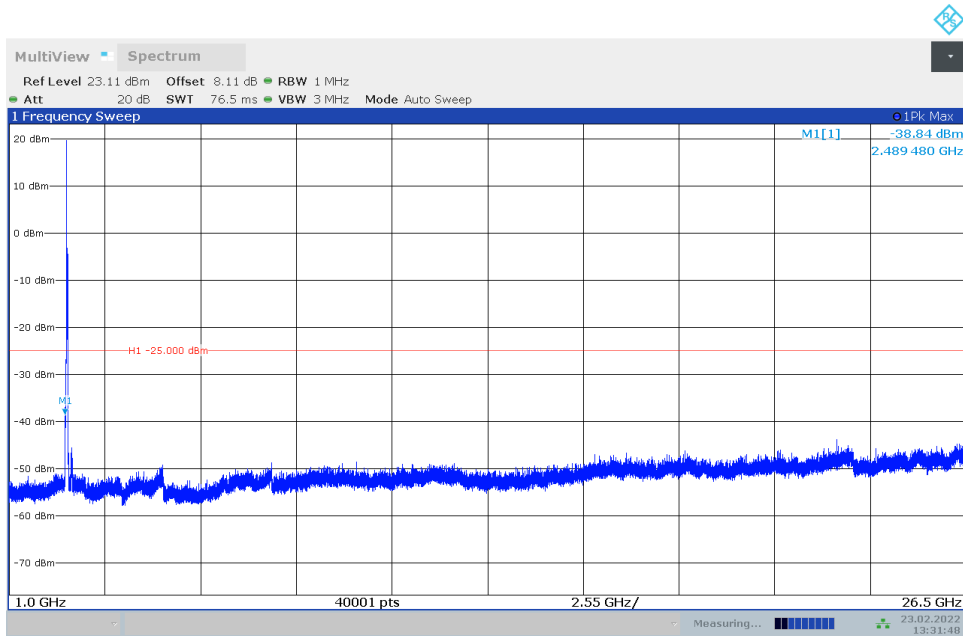
13:30:26 23.02.2022



13:30:56 23.02.2022

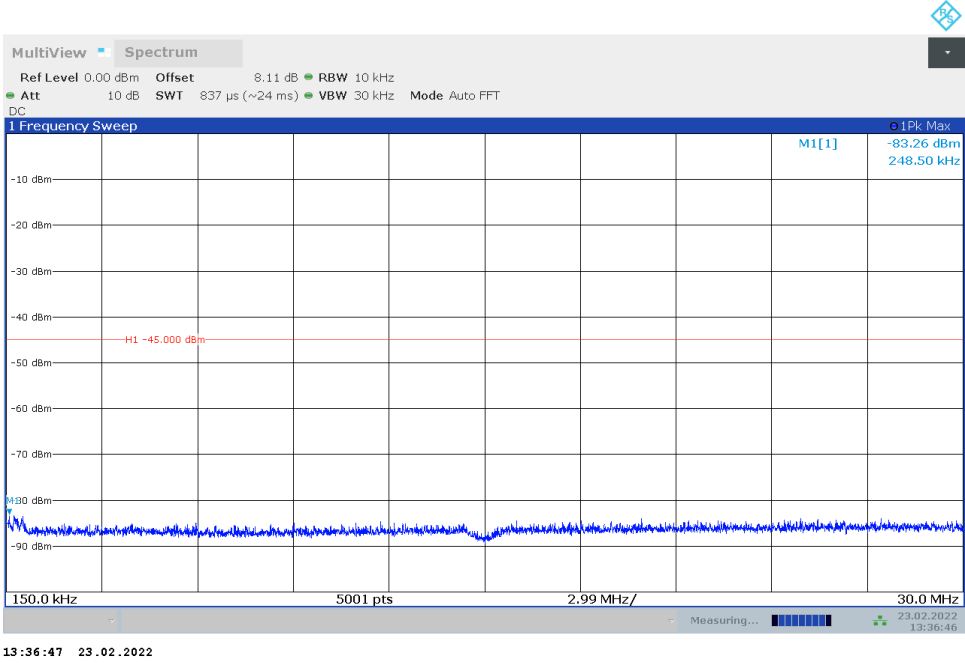
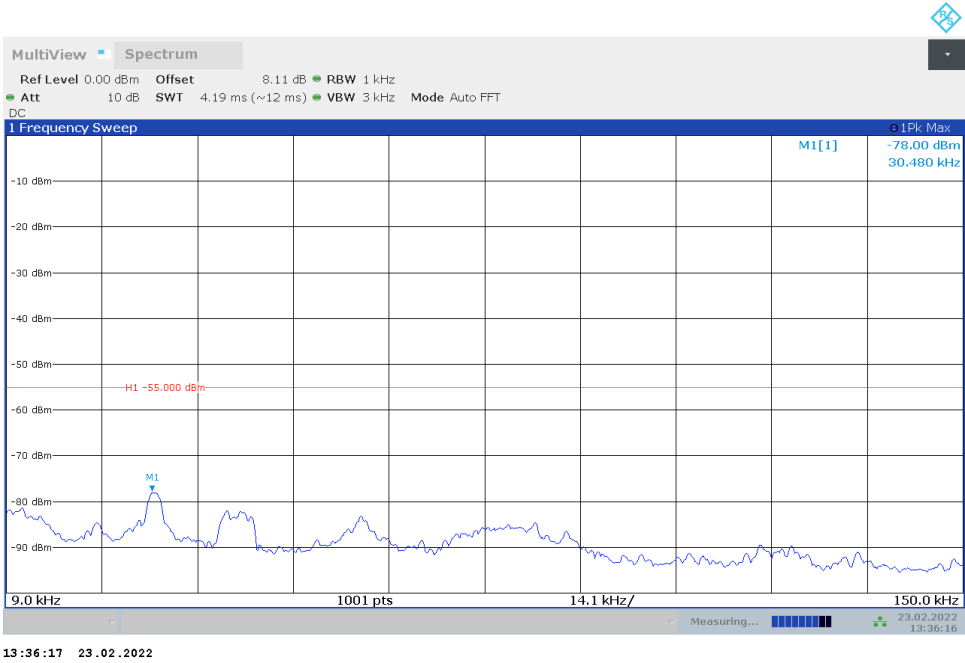


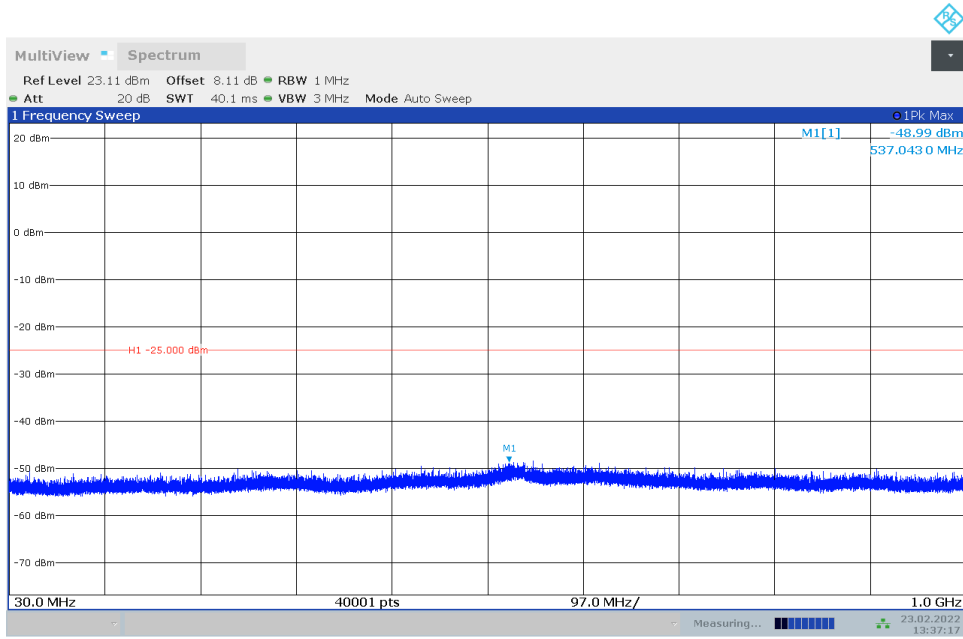
13:31:27 23.02.2022



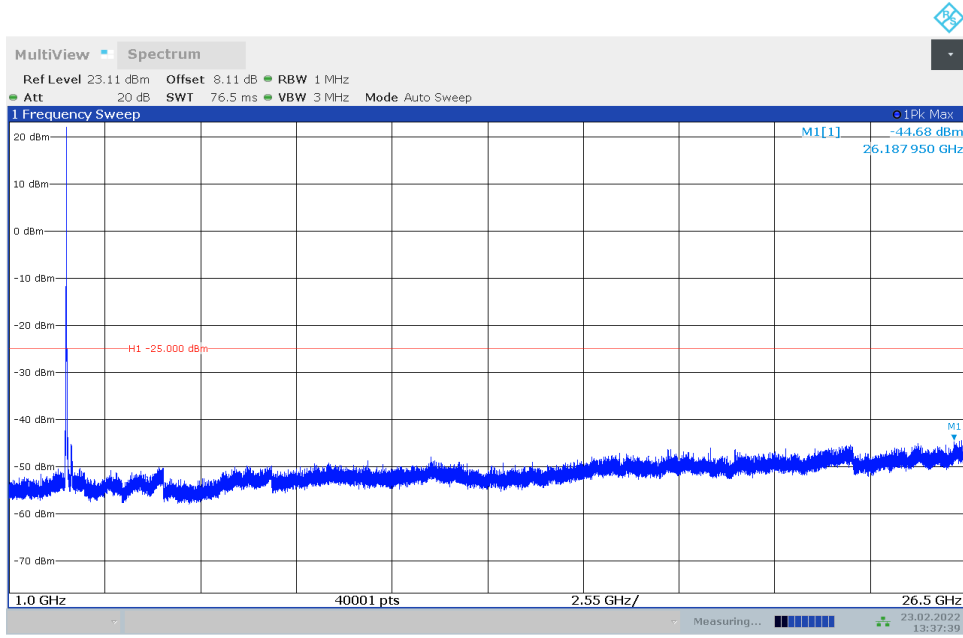
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6.2.4 CA_7C_TM1_MCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



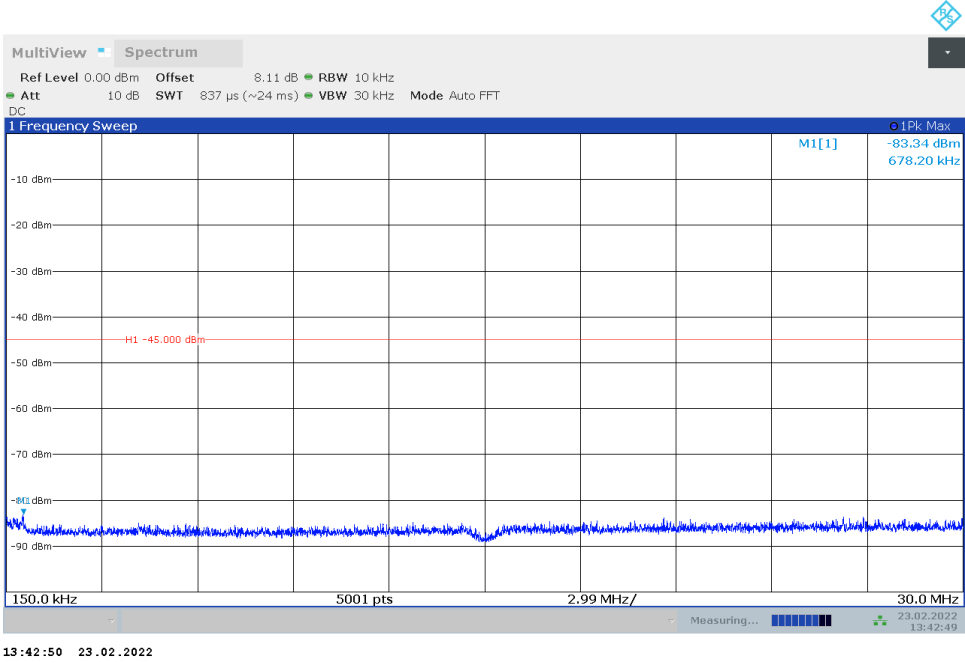
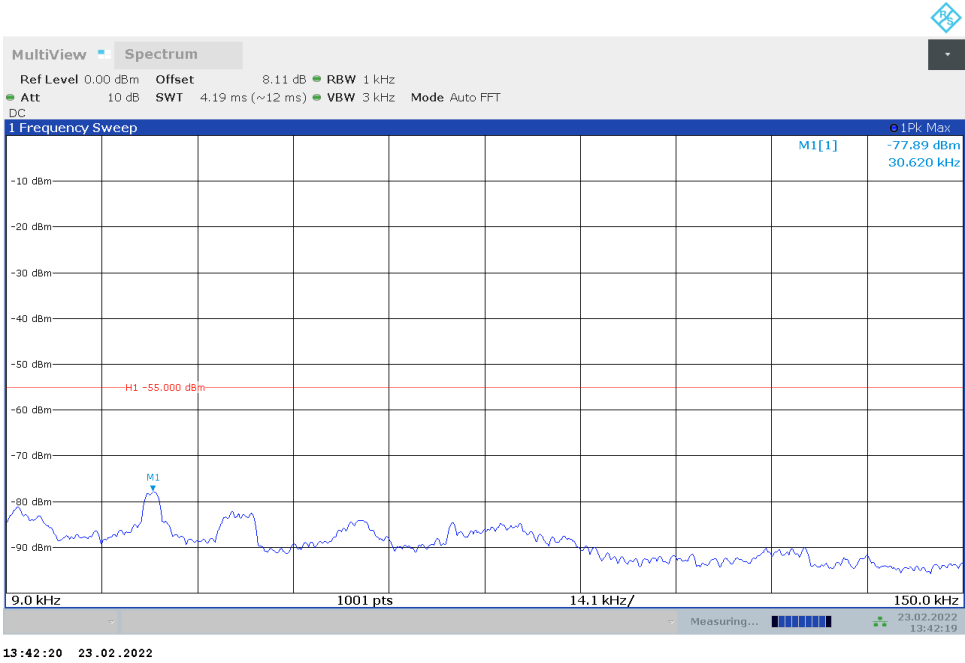


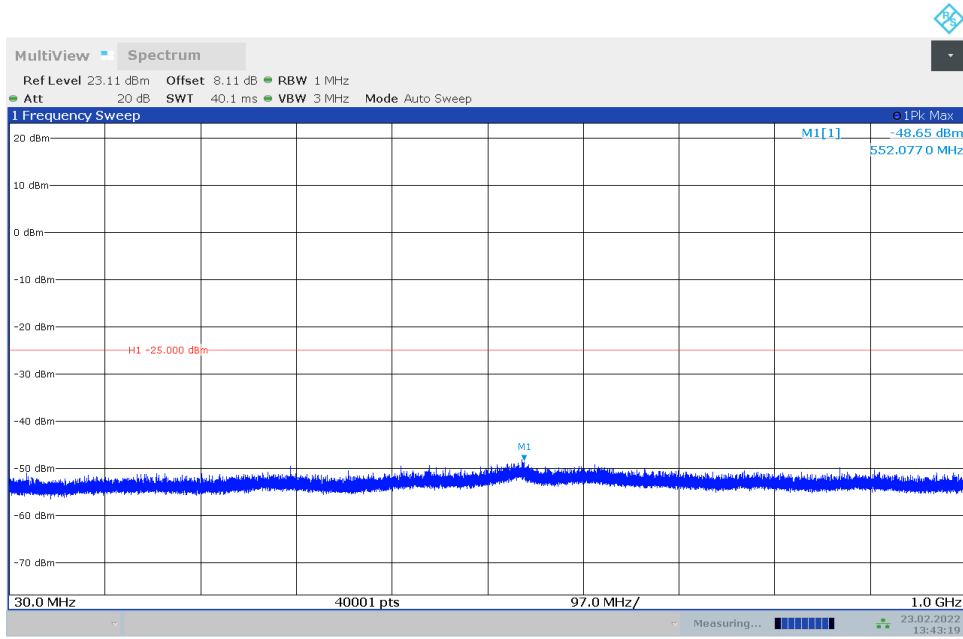
13:37:17 23.02.2022



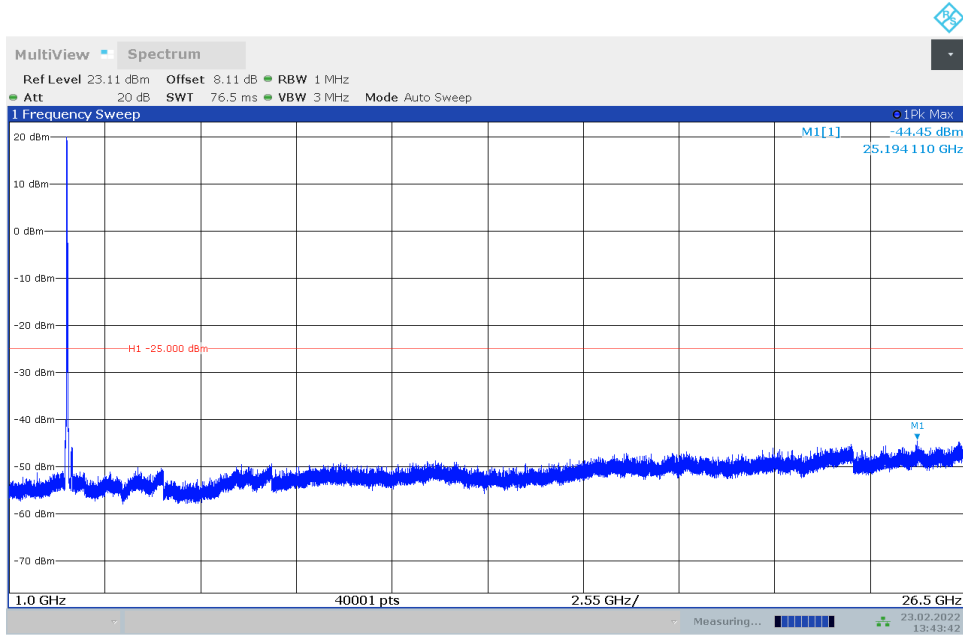
13:37:40 23.02.2022

6.2.5 CA_7C_TM1_HCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



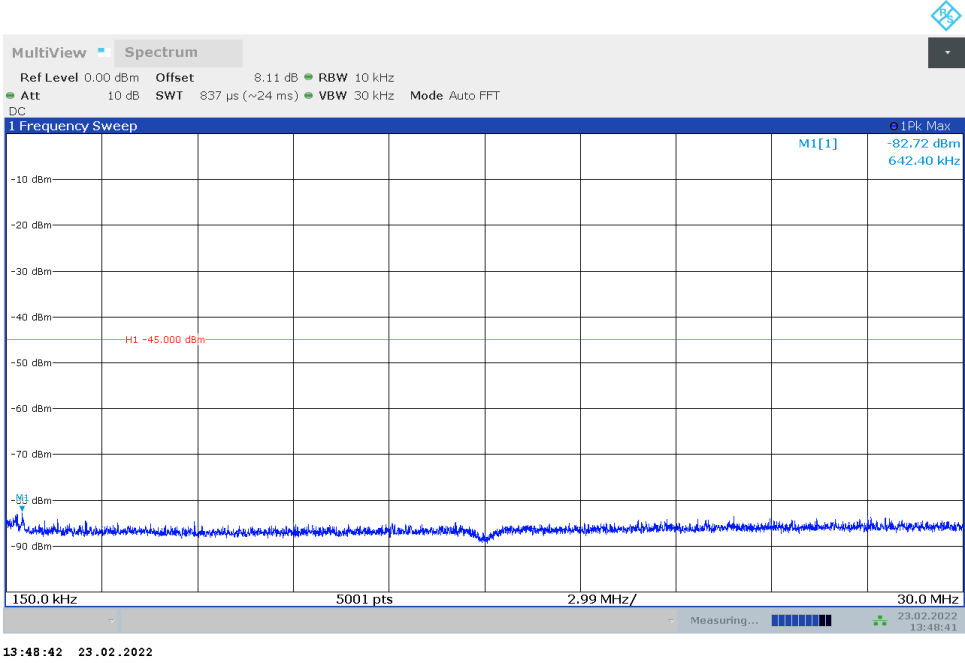
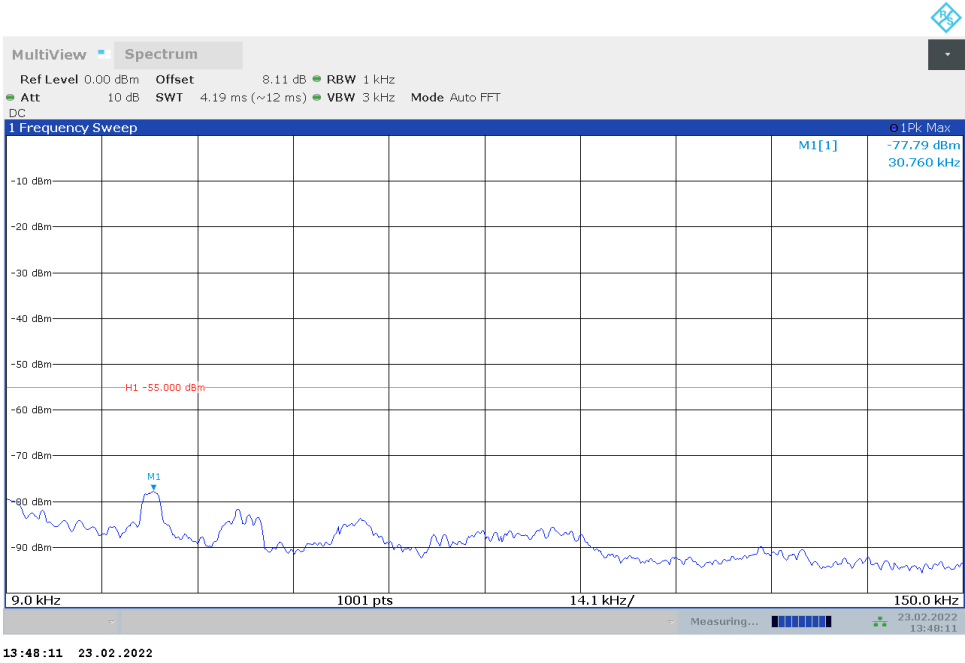


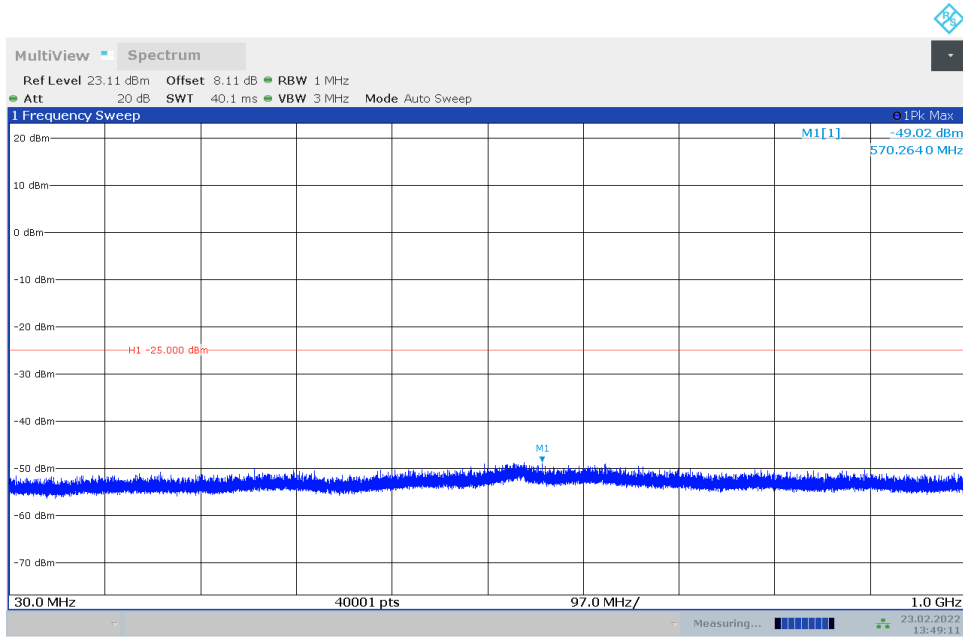
13:43:20 23.02.2022



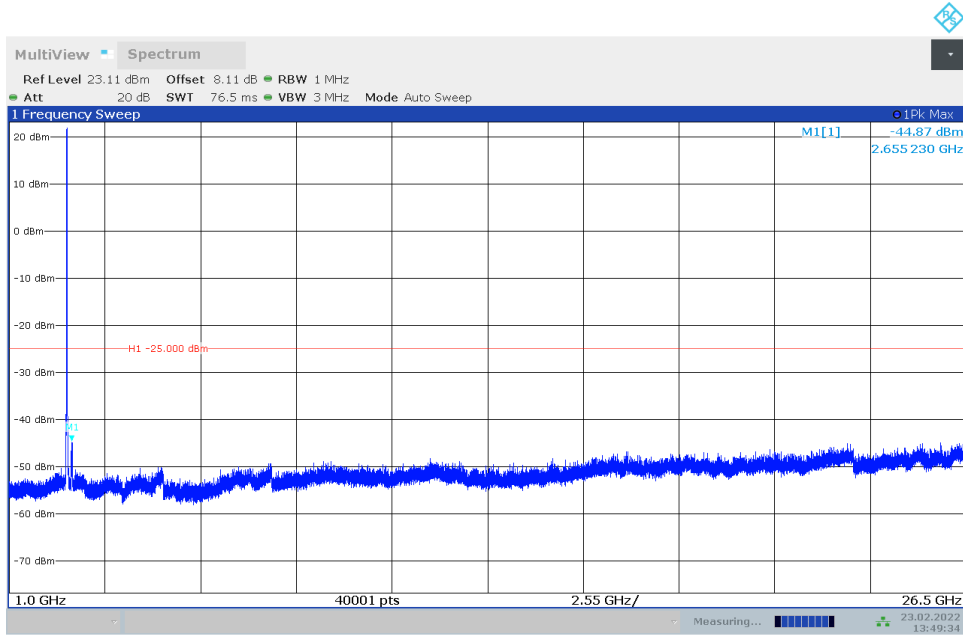
13:43:43 23.02.2022

6.2.6 CA_7C_TM1_HCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



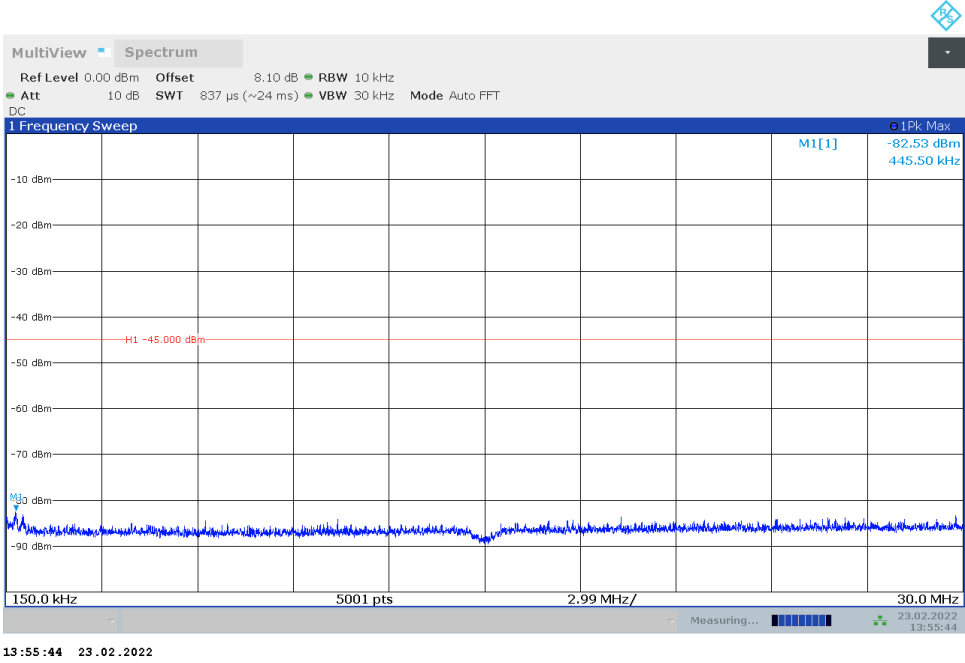


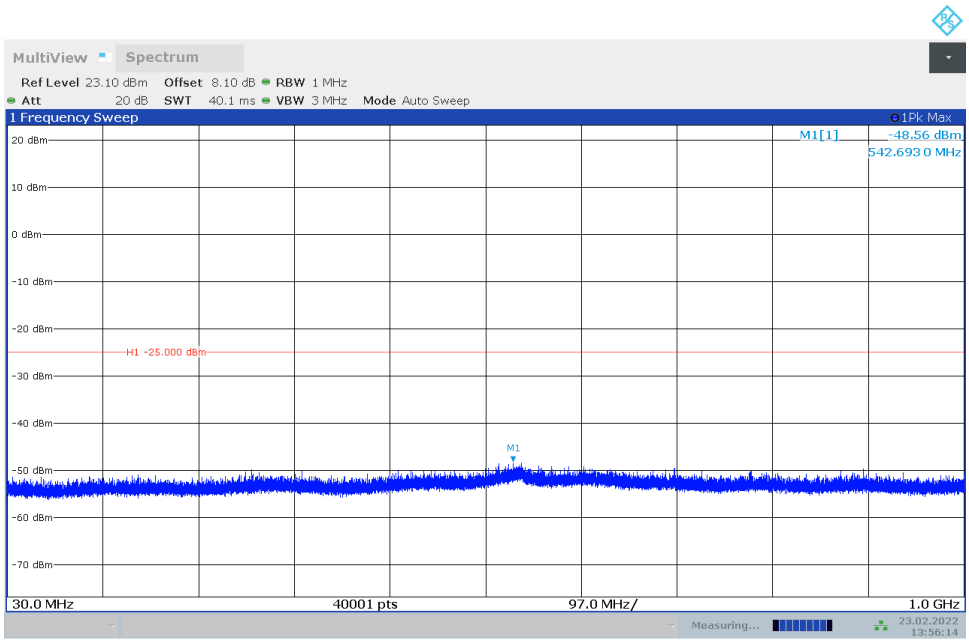
13:49:12 23.02.2022



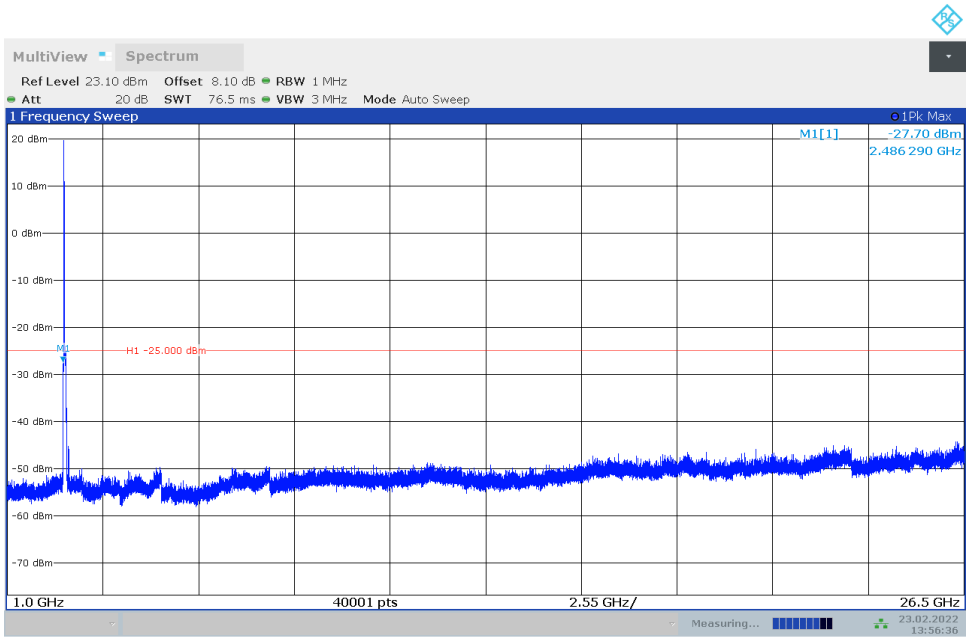
13:49:34 23.02.2022

6.2.7 CA_7C_TM1_LCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



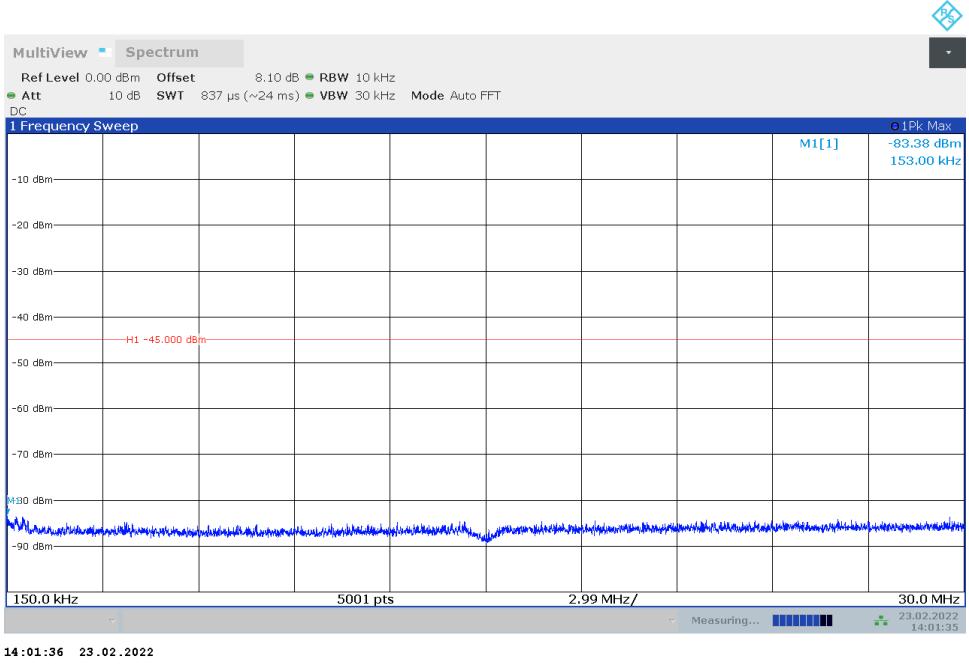
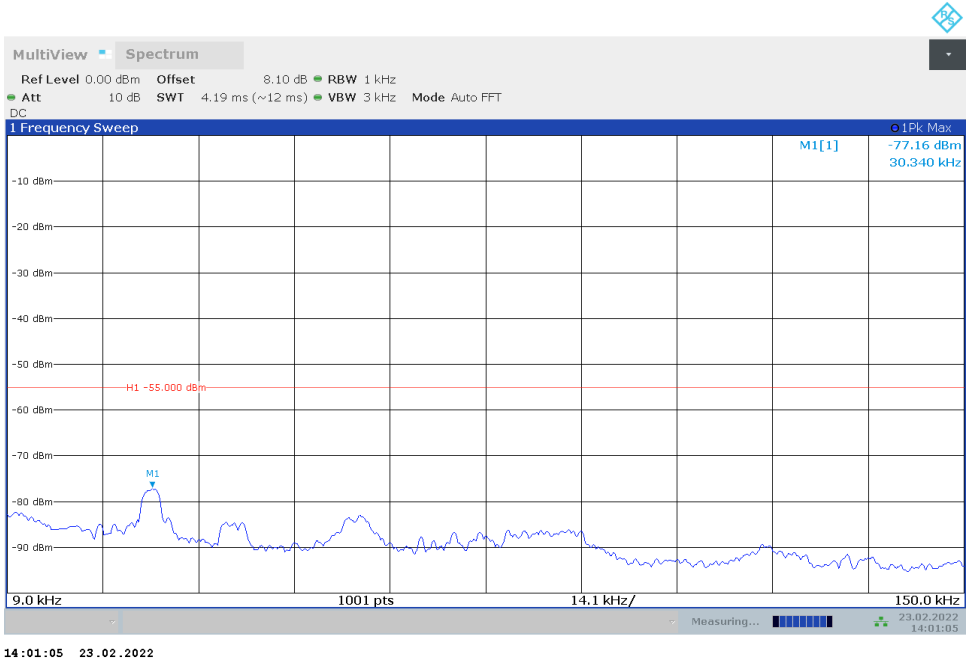


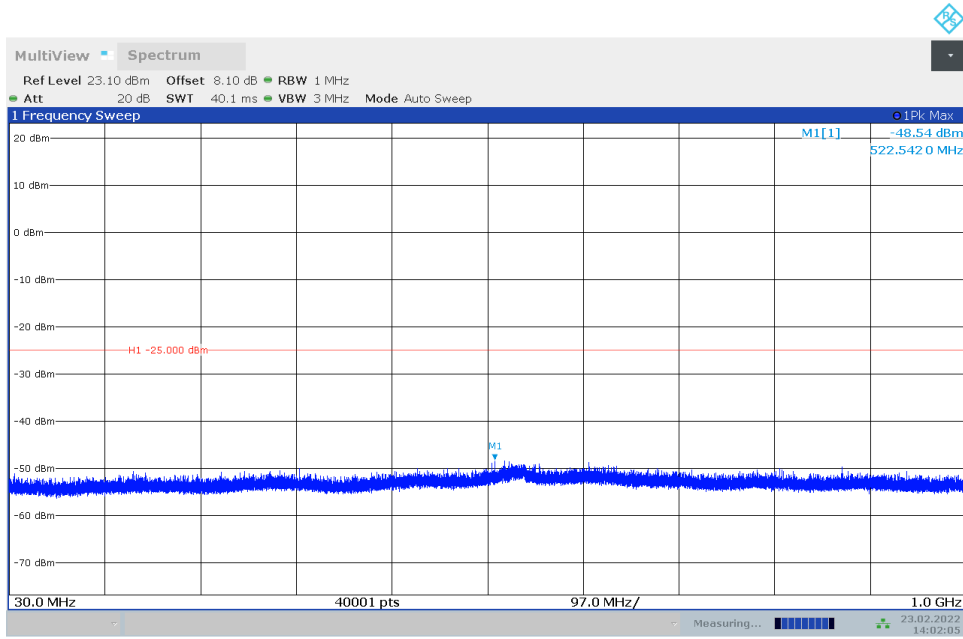
13:56:14 23.02.2022



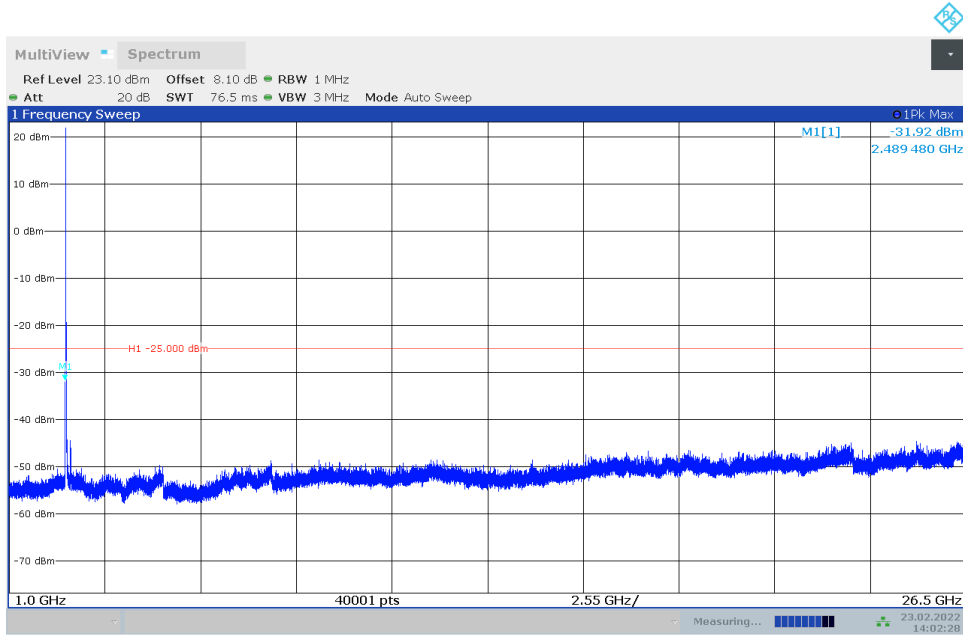
13:56:37 23.02.2022

6.2.8 CA_7C_TM1_LCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



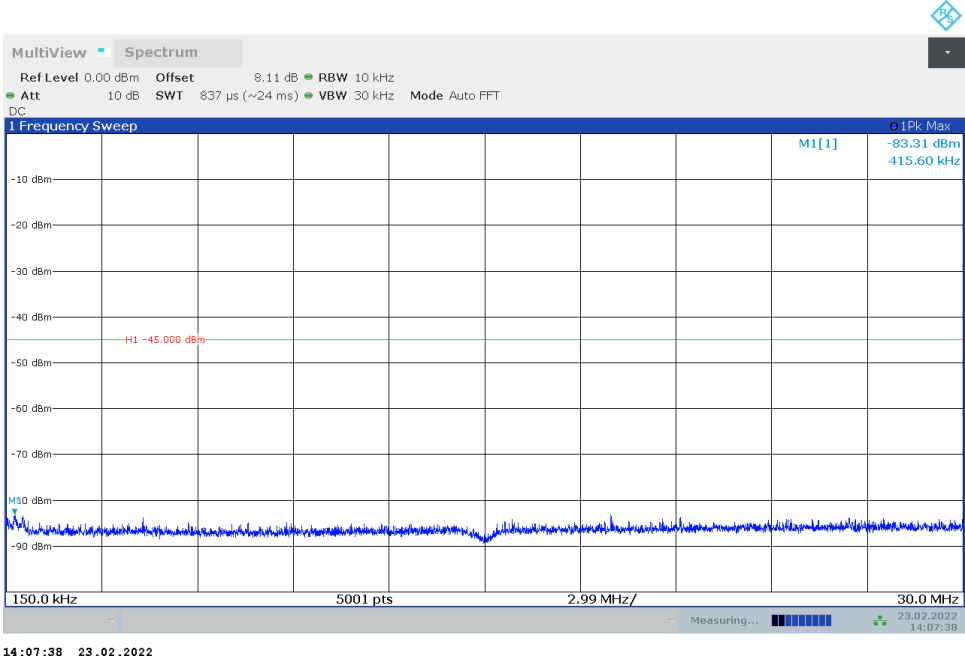
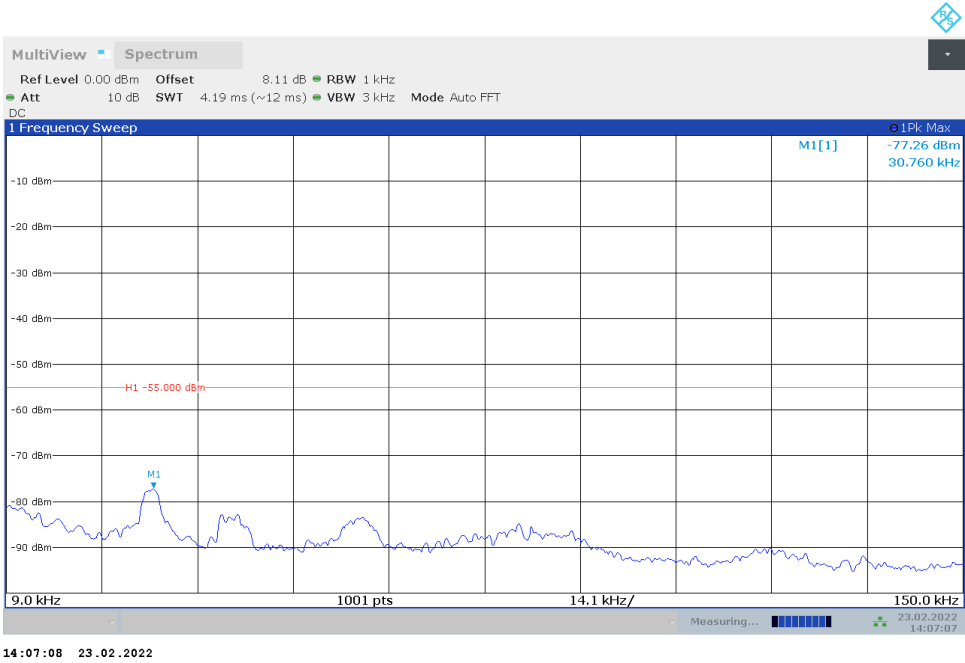


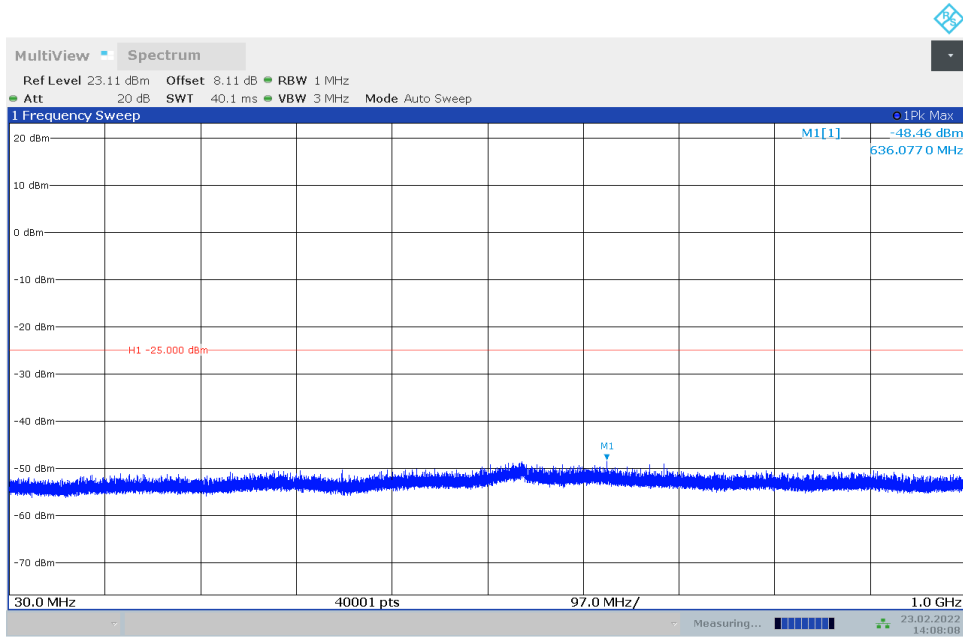
14:02:06 23.02.2022



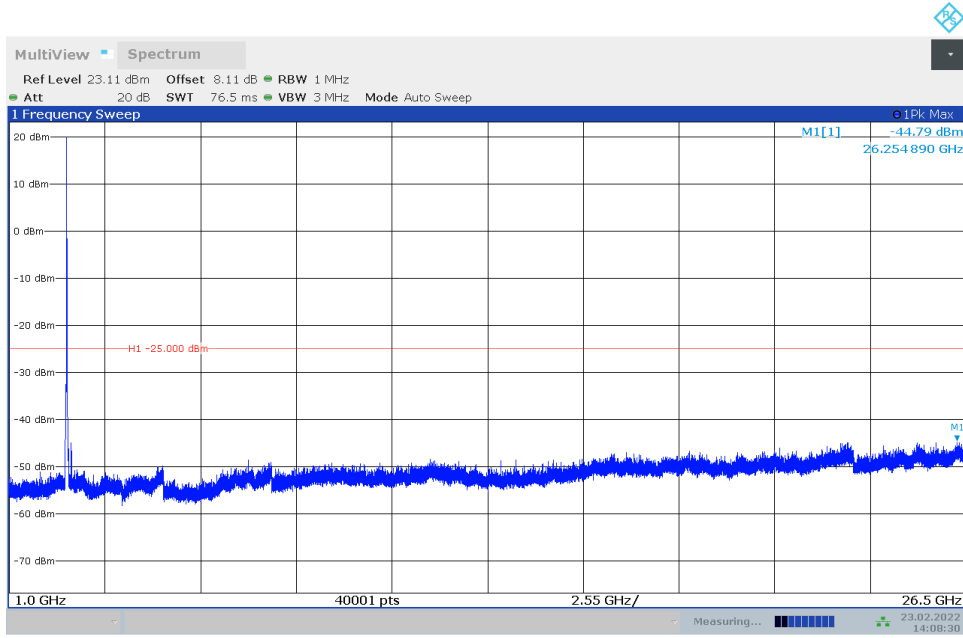
14:02:28 23.02.2022

6.2.9 CA_7C_TM1_MCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



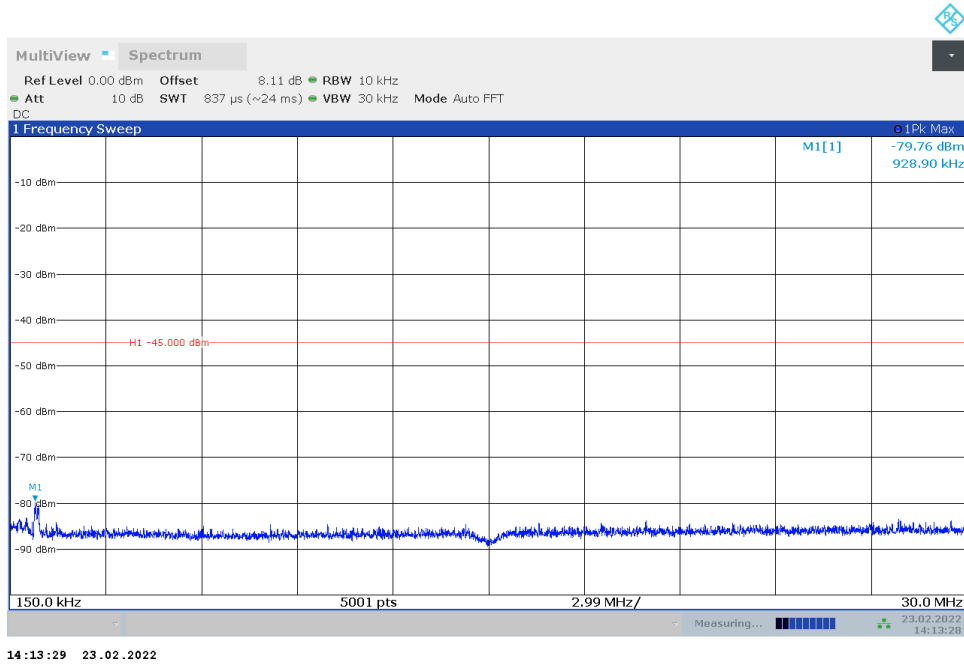
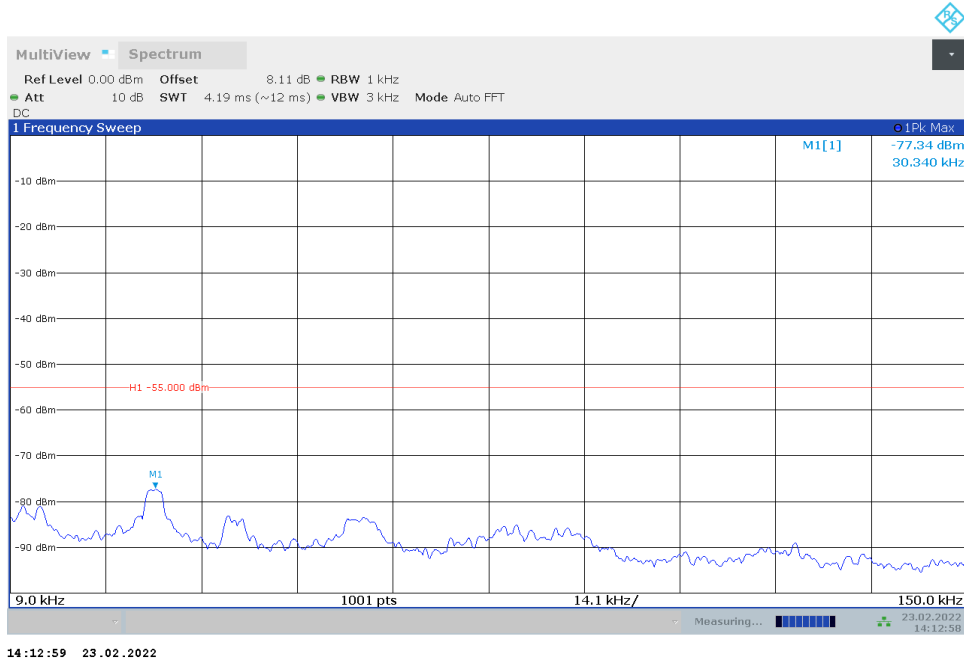


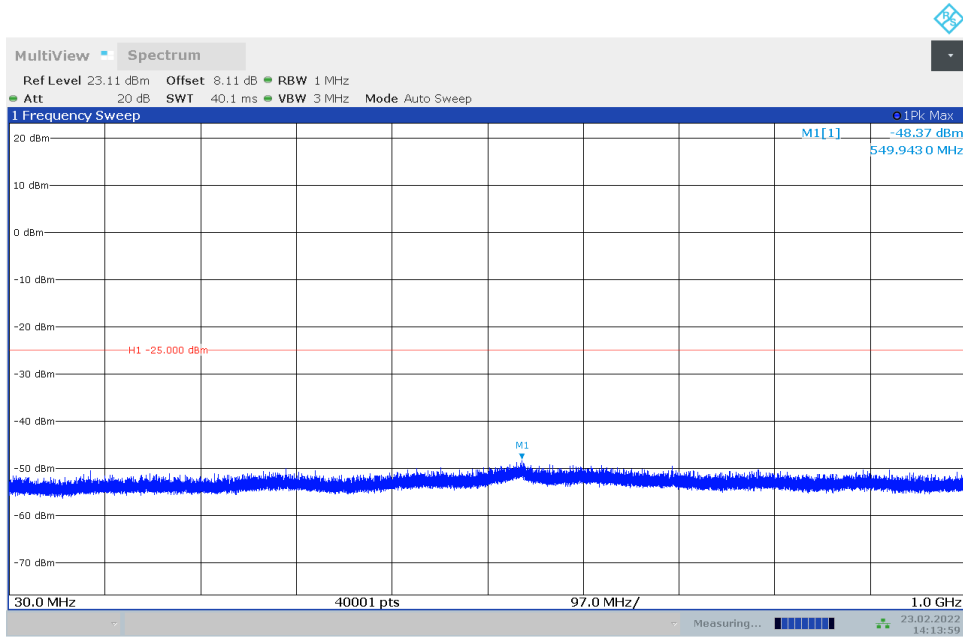
14:08:08 23.02.2022



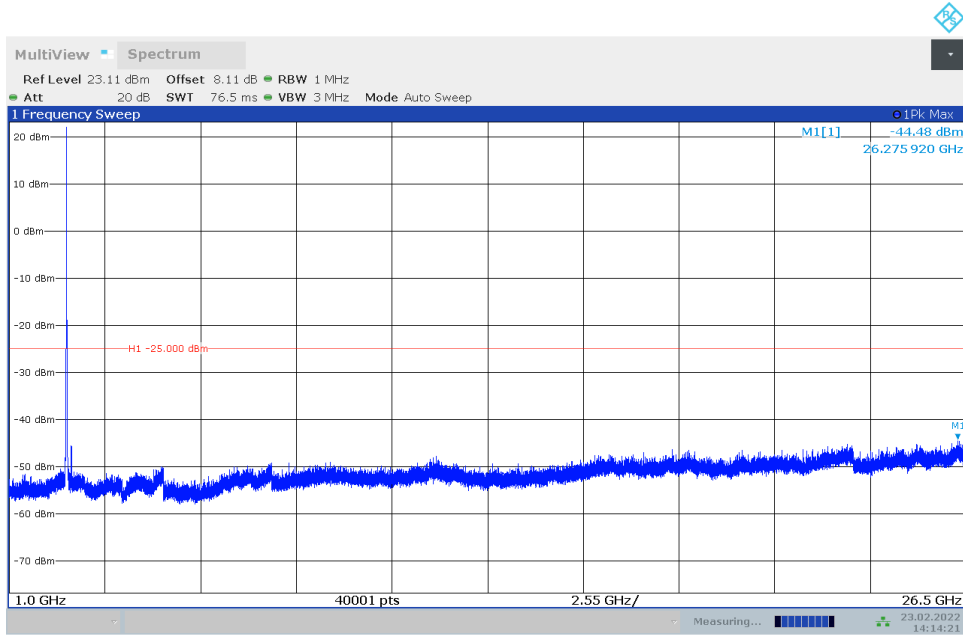
14:08:31 23.02.2022

6.2.10 CA_7C_TM1_MCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



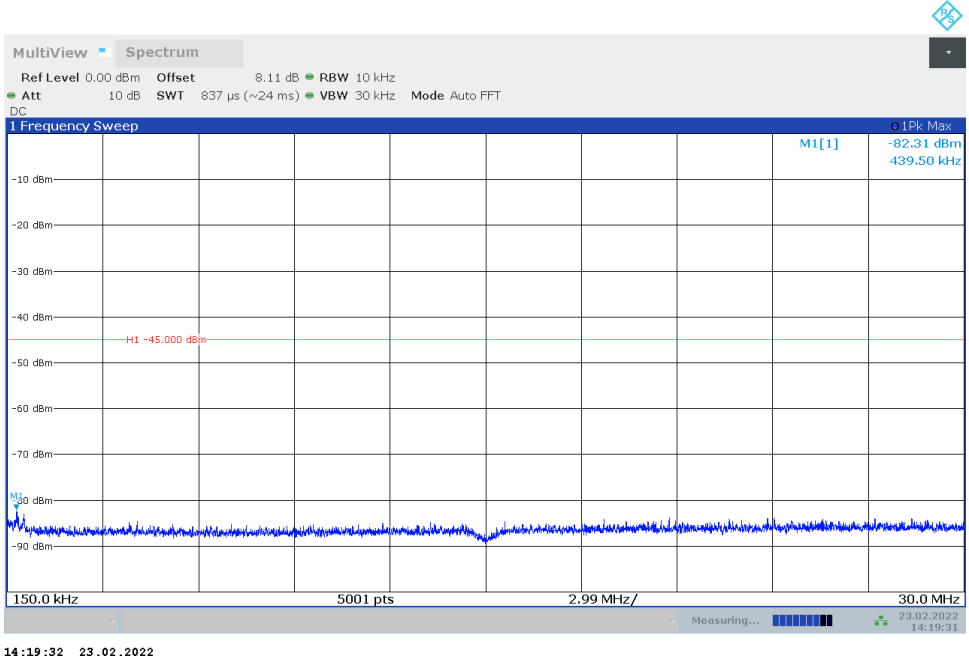
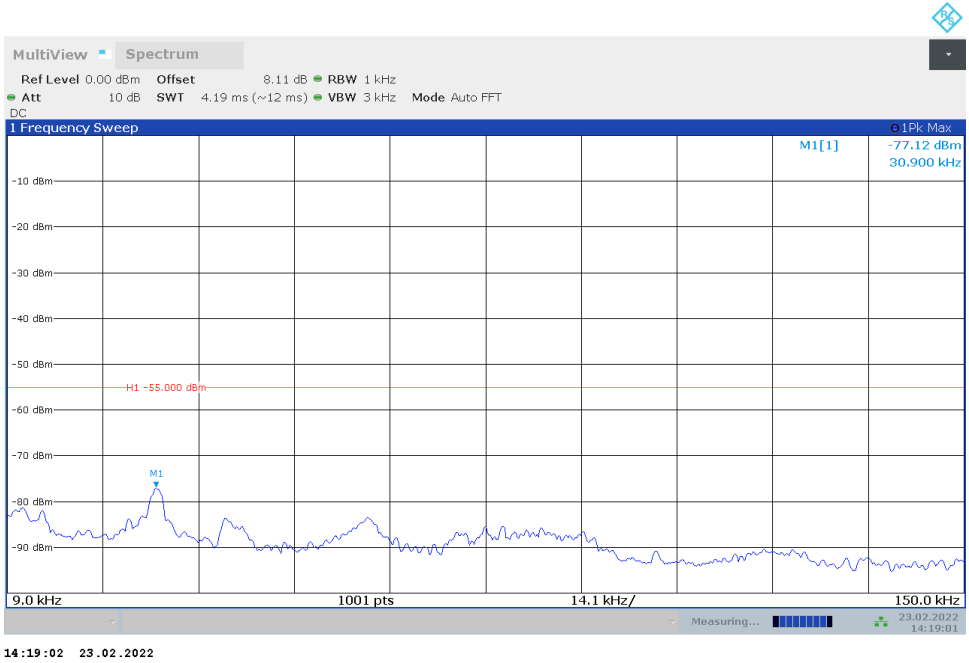


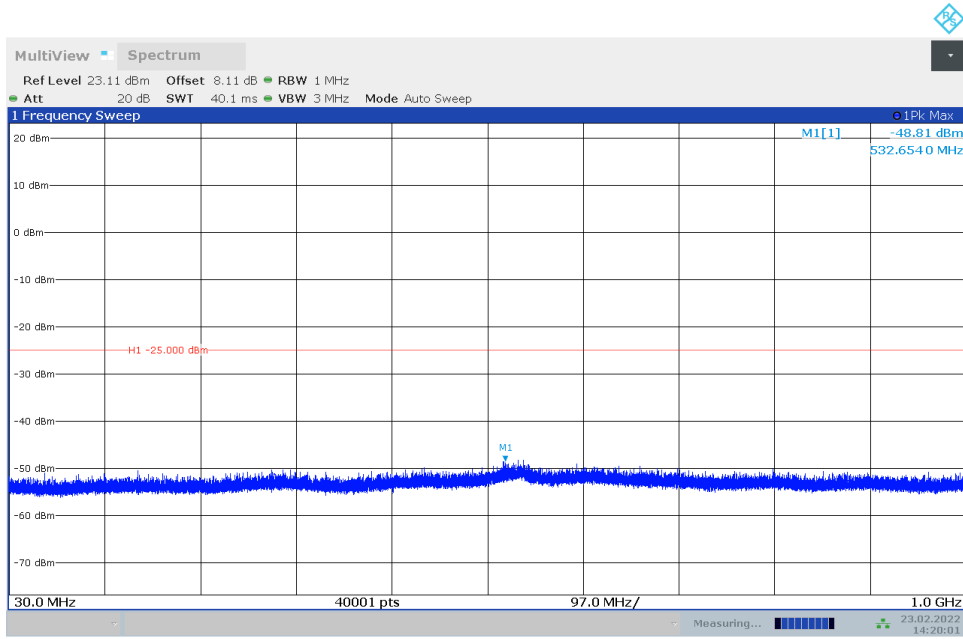
14:13:59 23.02.2022



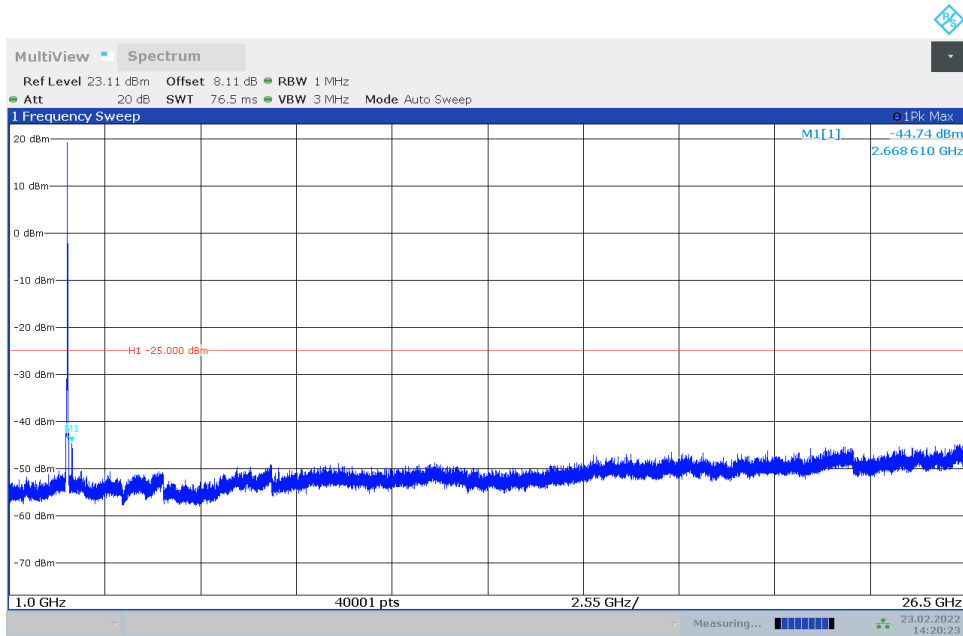
14:14:22 23.02.2022

6.2.11 CA_7C_TM1_HCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



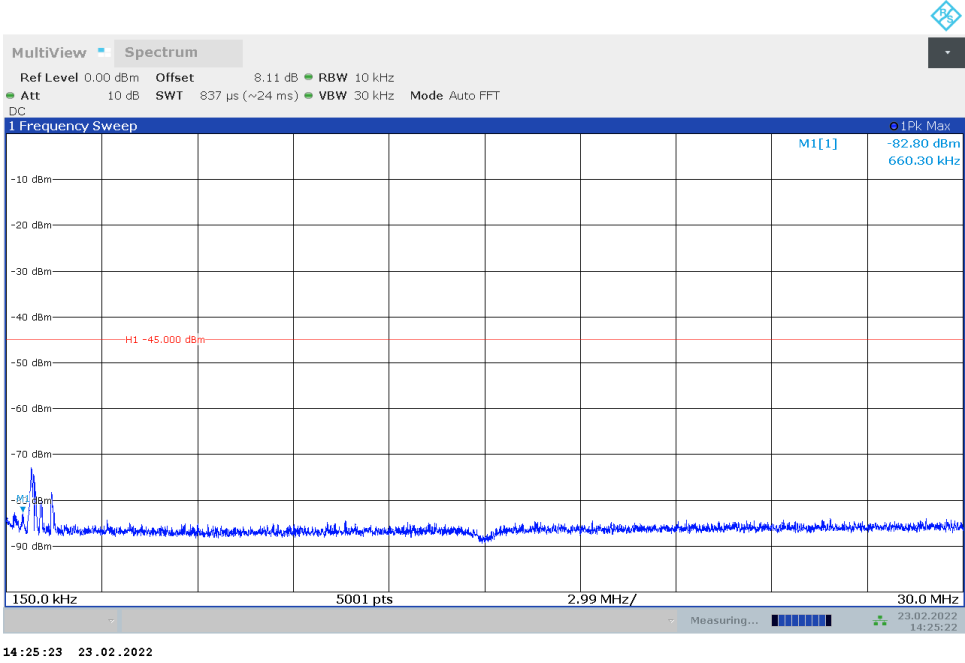


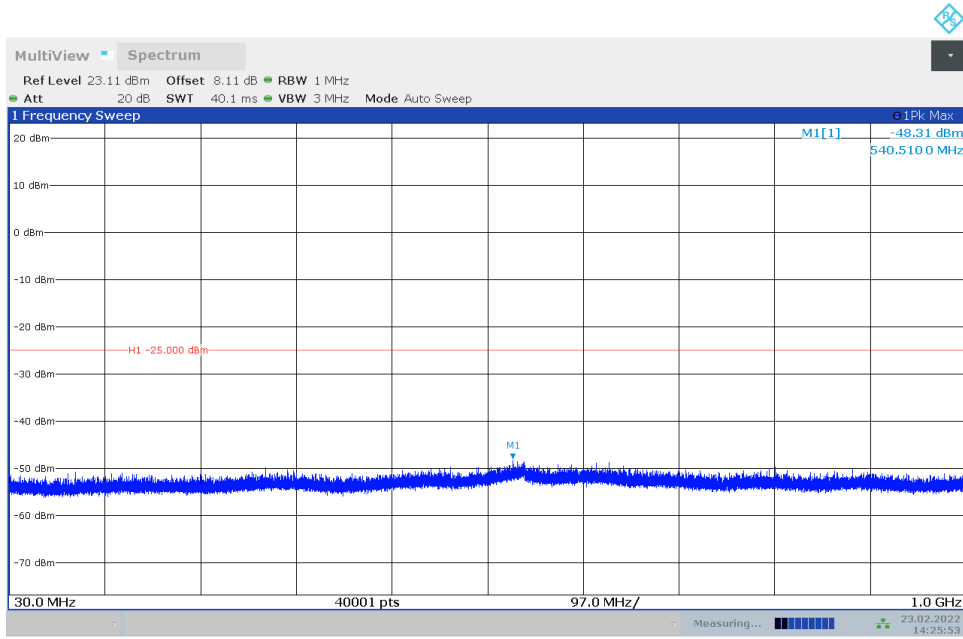
14:20:02 23.02.2022



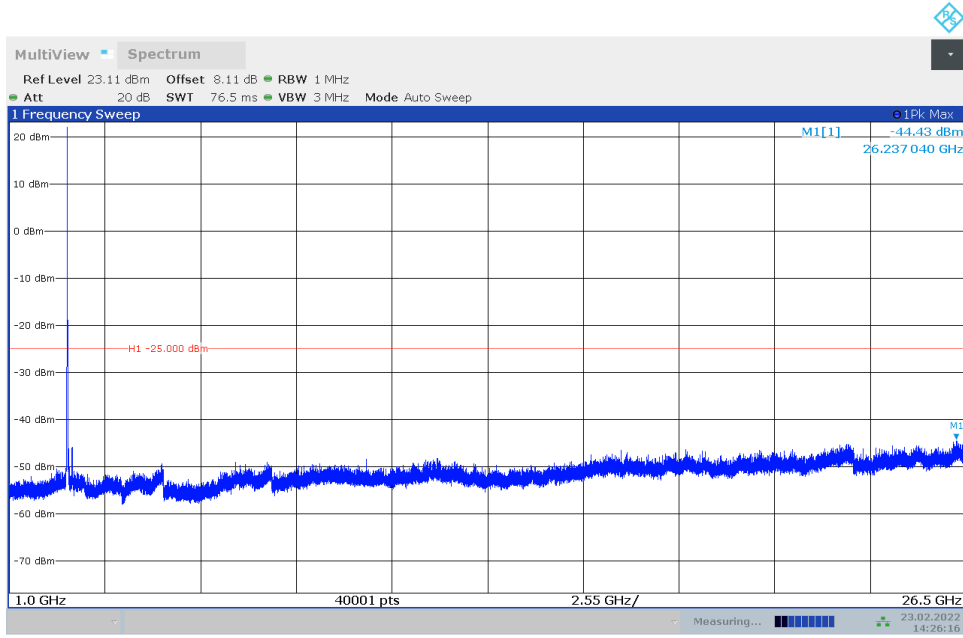
14:20:24 23.02.2022

6.2.12 CA_7C_TM1_HCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



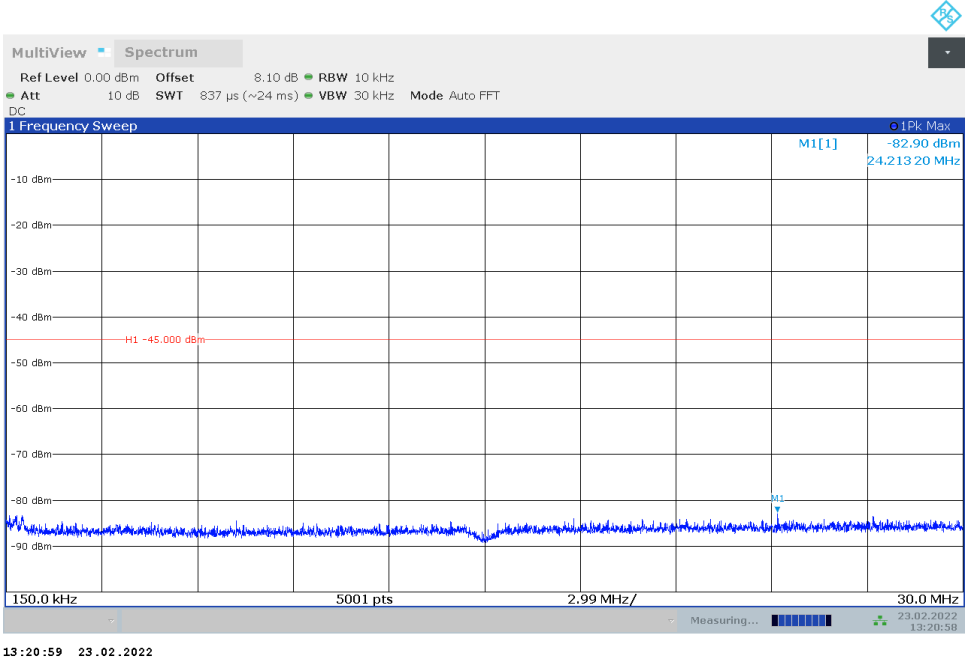
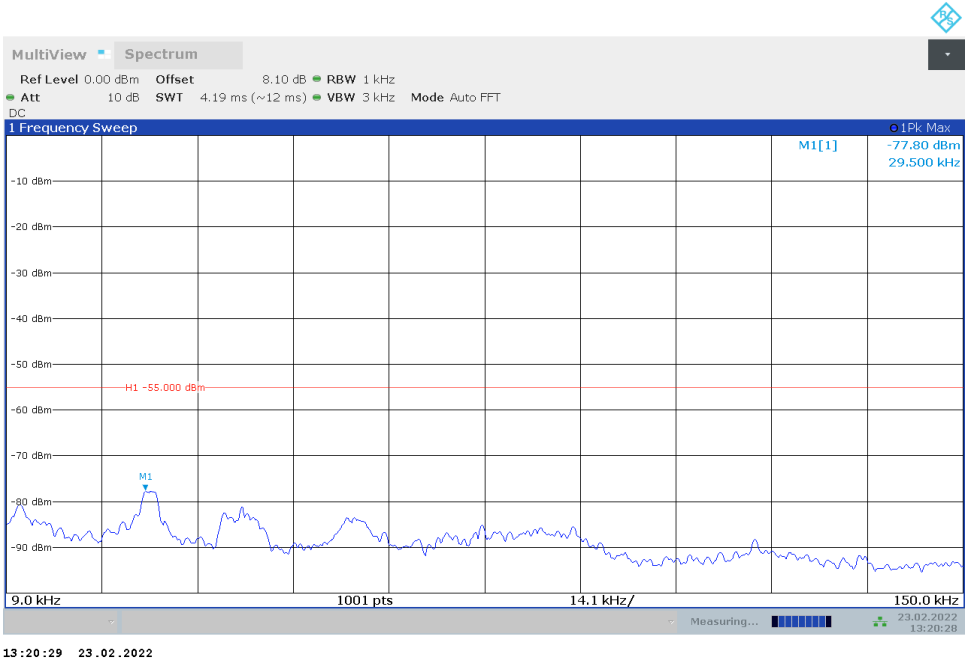


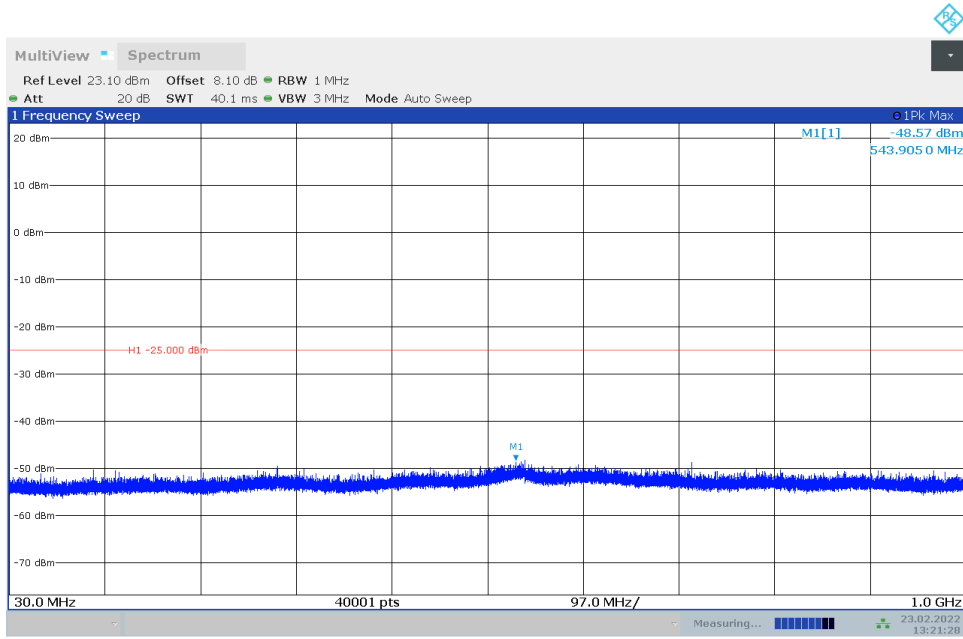
14:25:53 23.02.2022



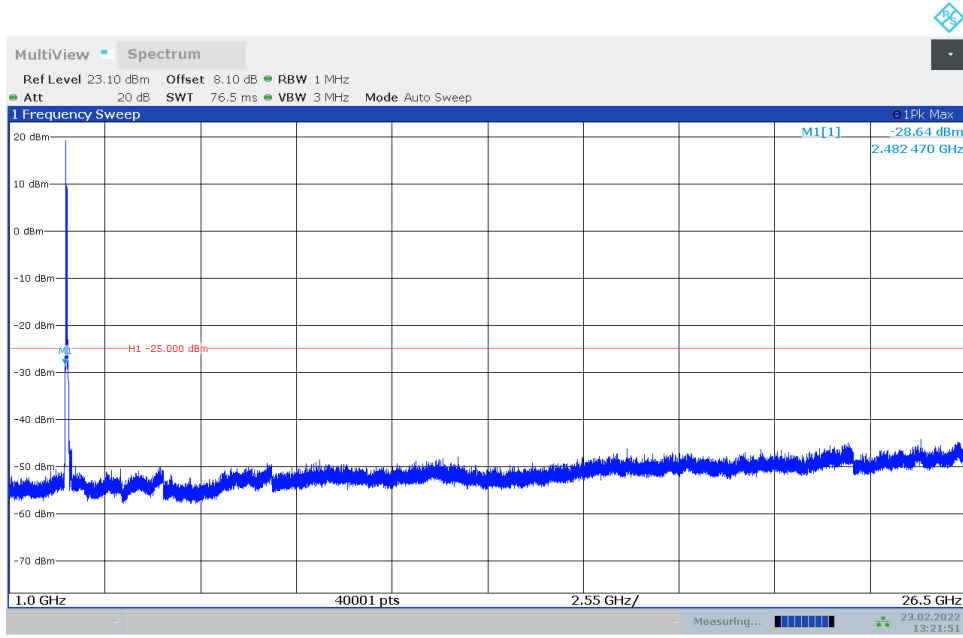
14:26:16 23.02.2022

6.2.13 CA_7C_TM2_LCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



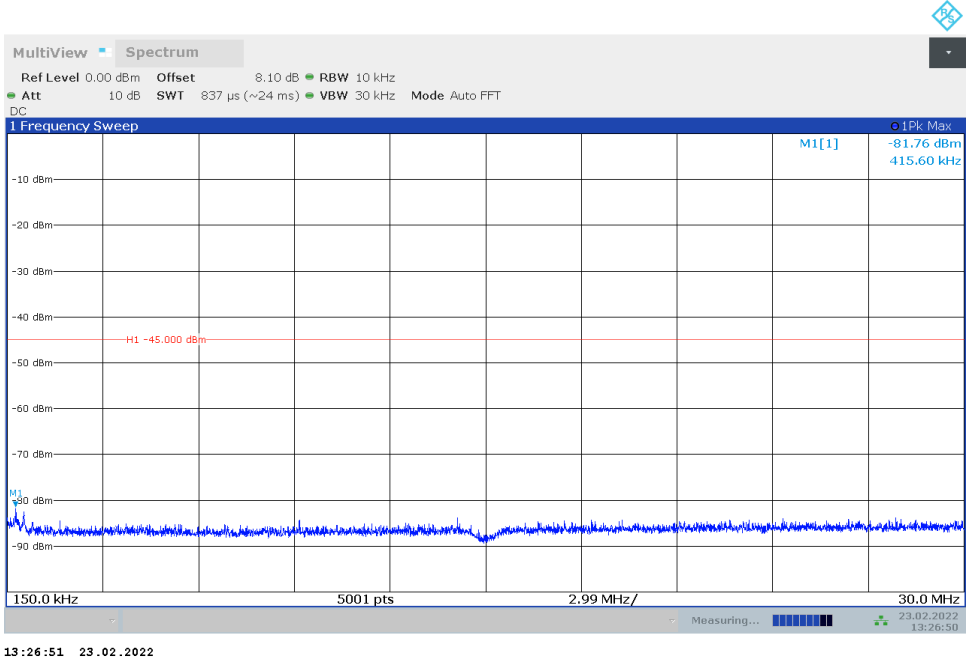


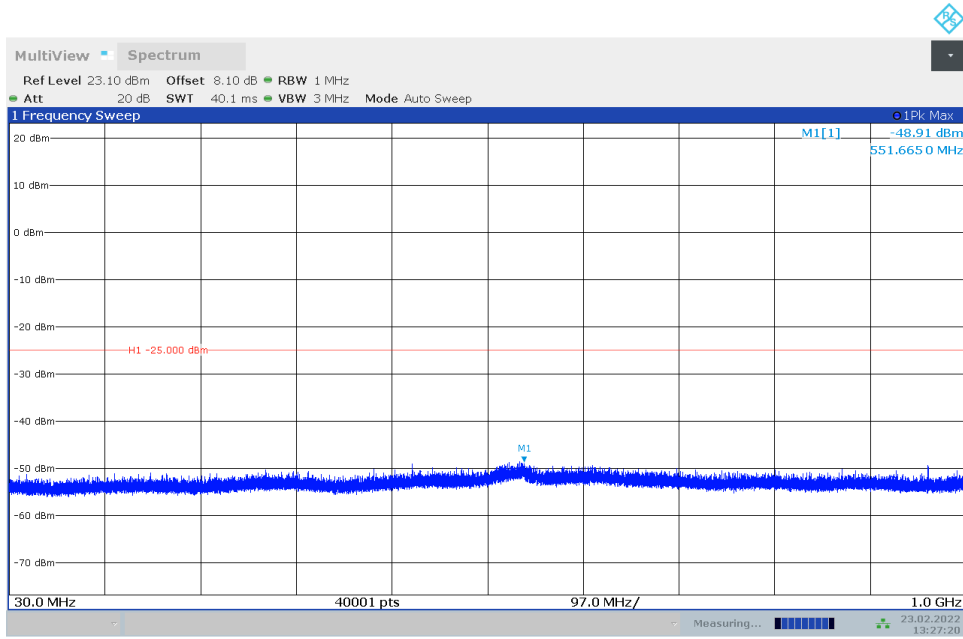
13:21:29 23.02.2022



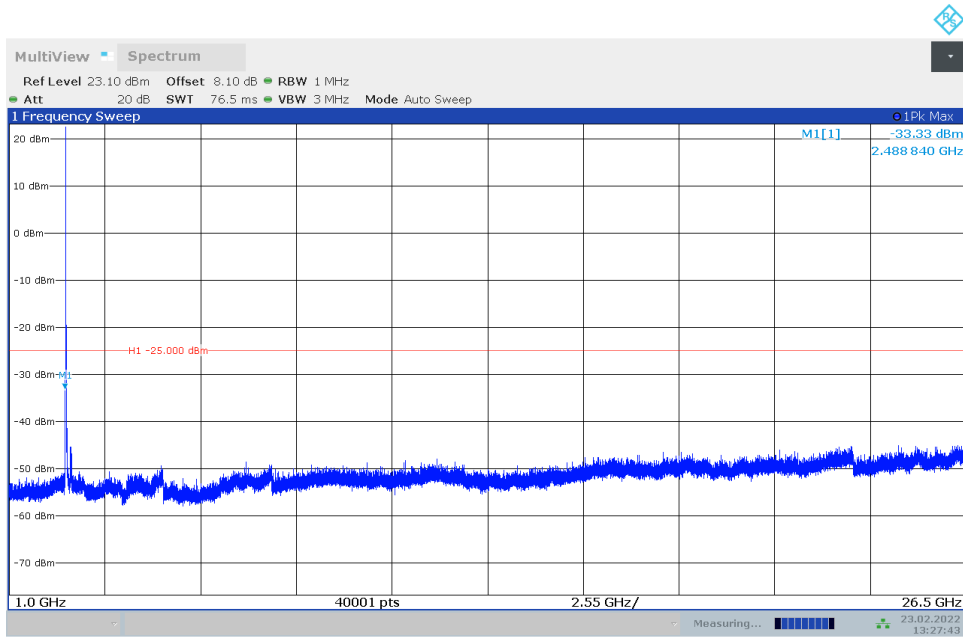
13:21:52 23.02.2022

6.2.14 CA_7C_TM2_LCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



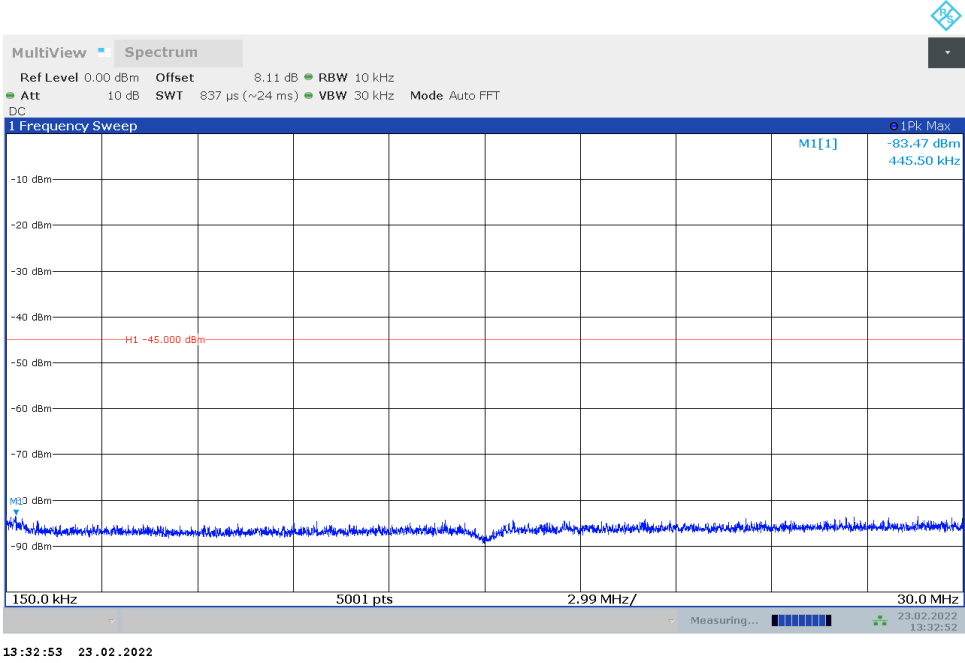
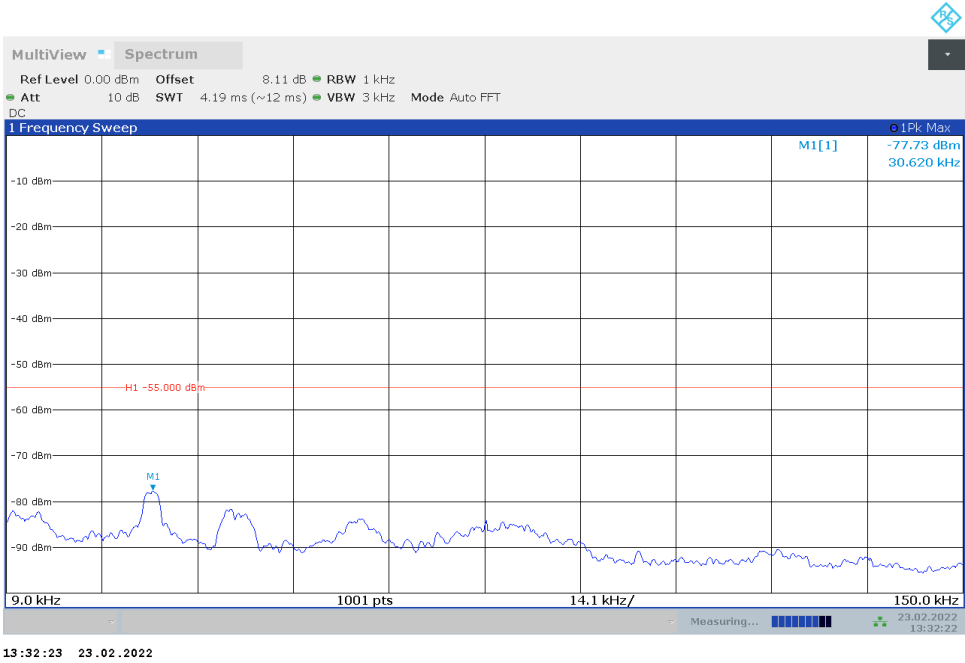


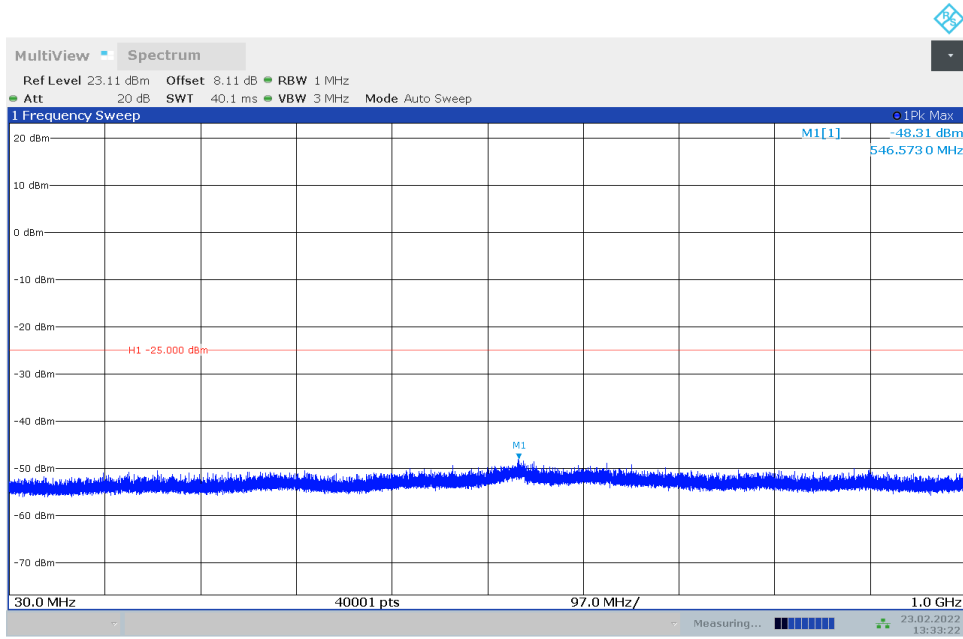
13:27:21 23.02.2022



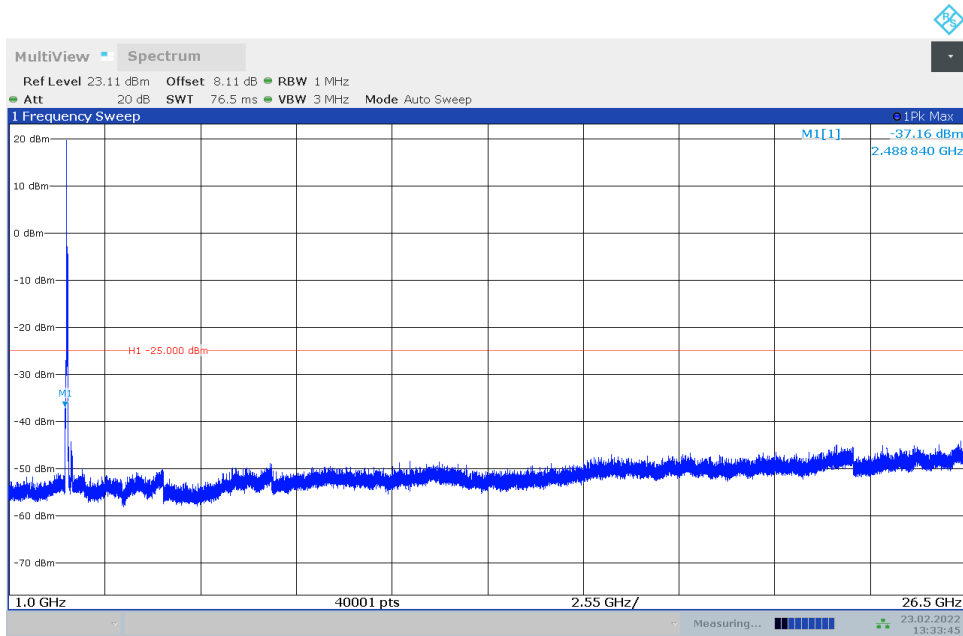
13:27:44 23.02.2022

6.2.15 CA_7C_TM2_MCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



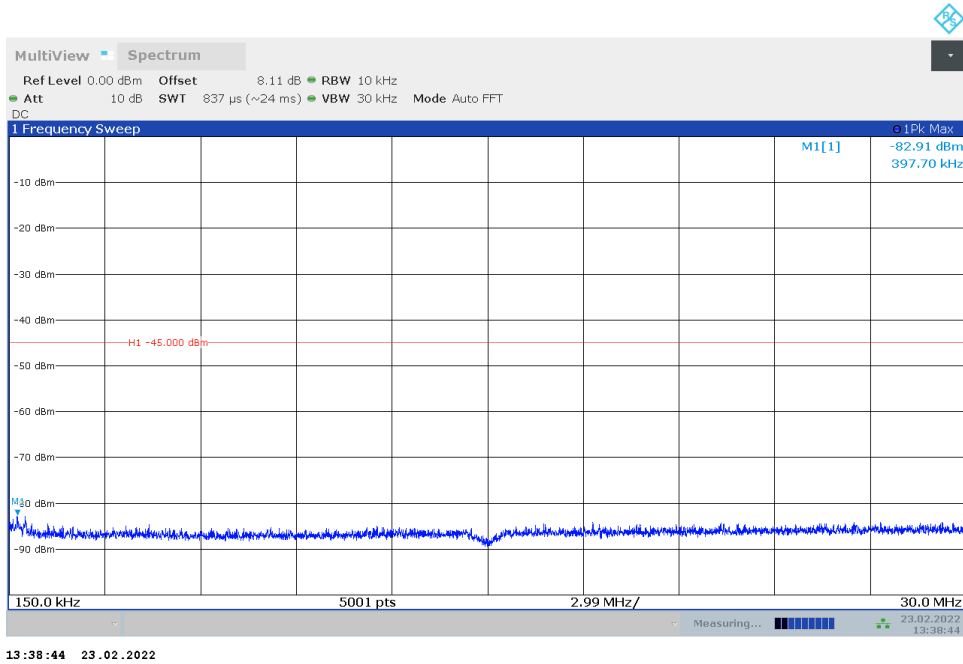


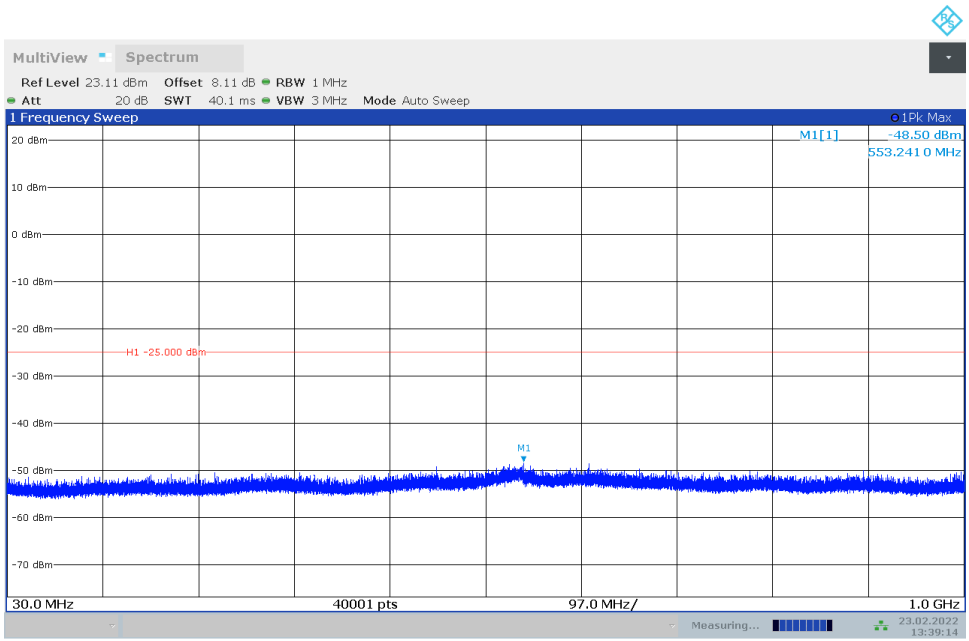
13:33:23 23.02.2022



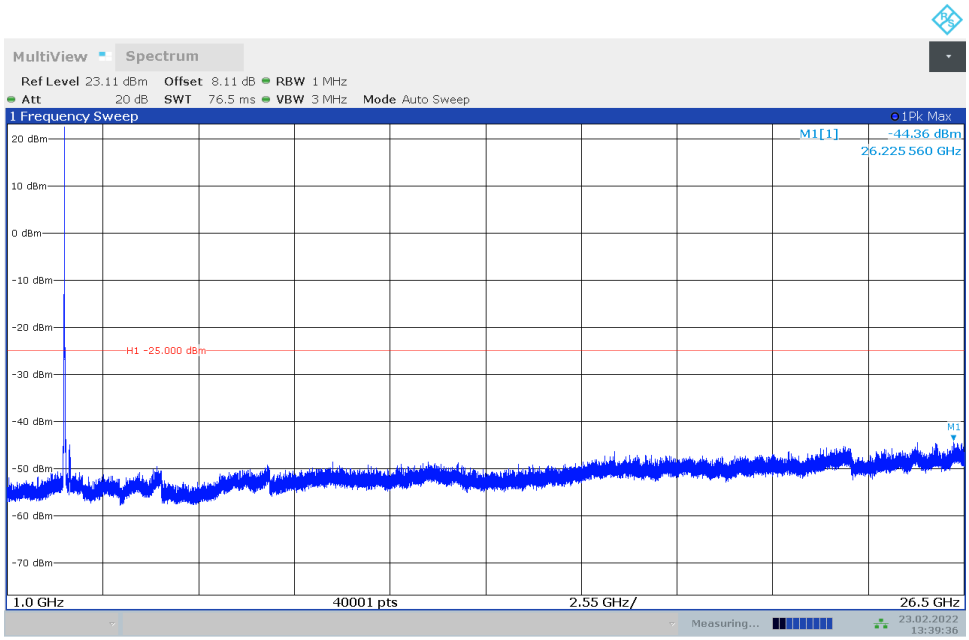
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6.2.16 CA_7C_TM2_MCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



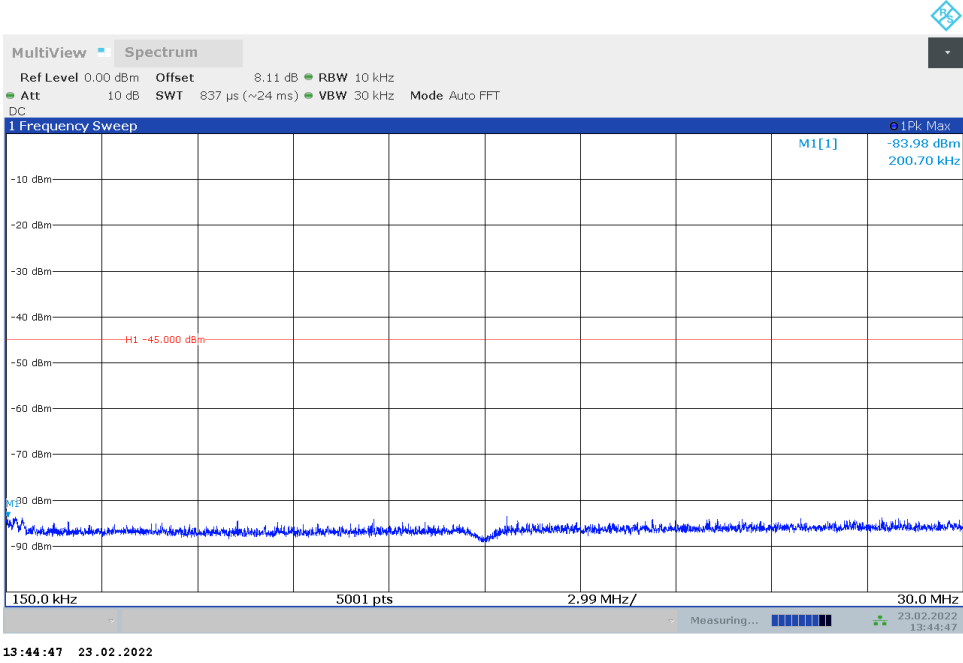


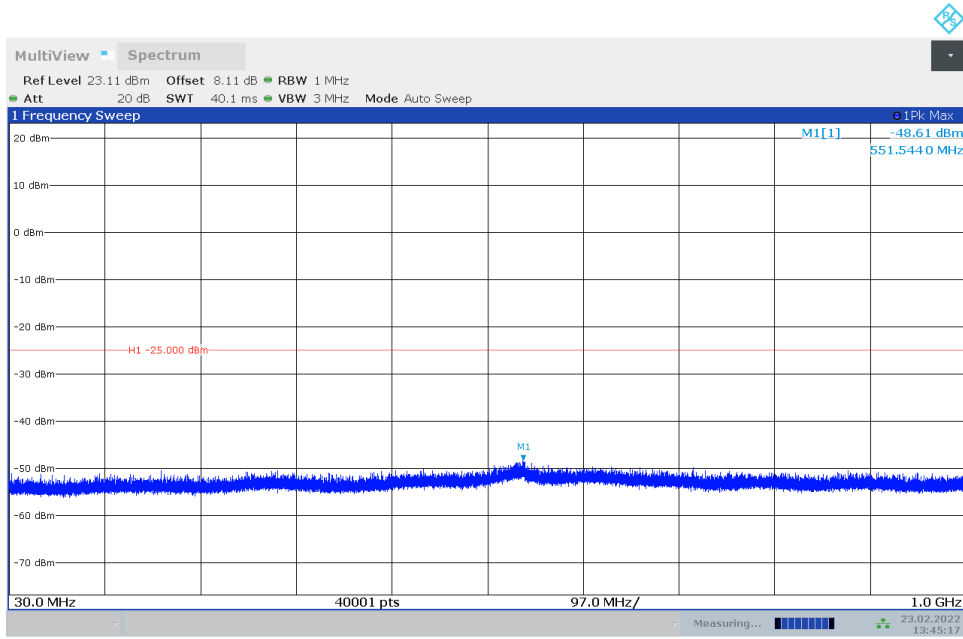
13:39:15 23.02.2022



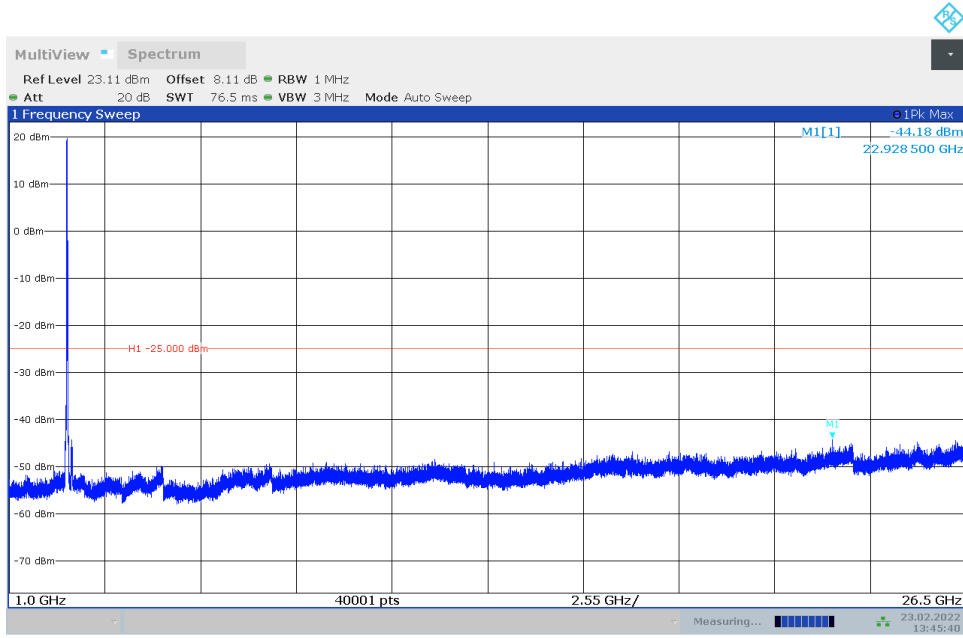
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6.2.17 CA_7C_TM2_HCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



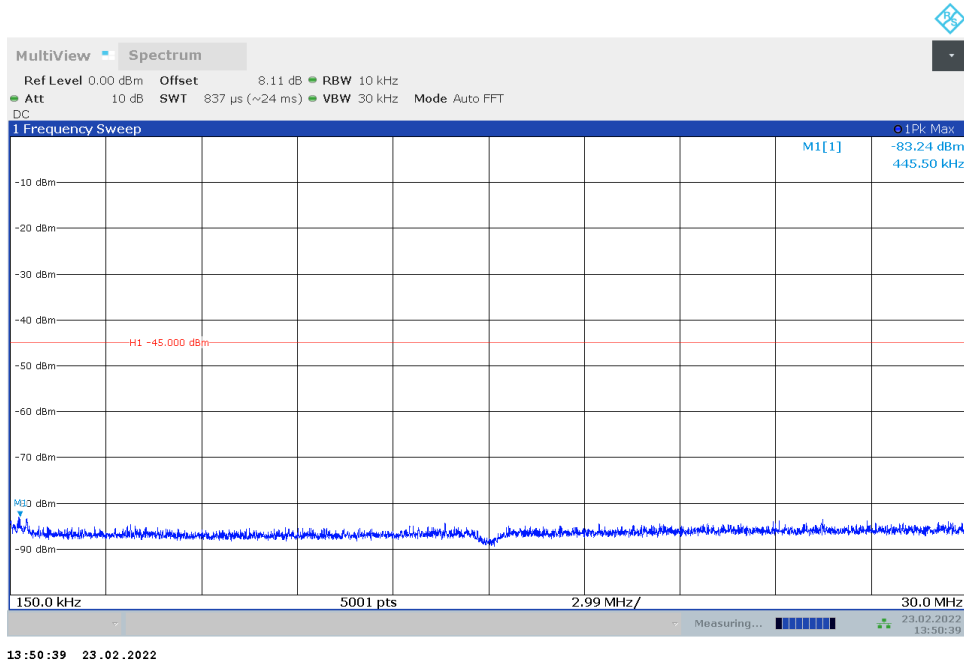
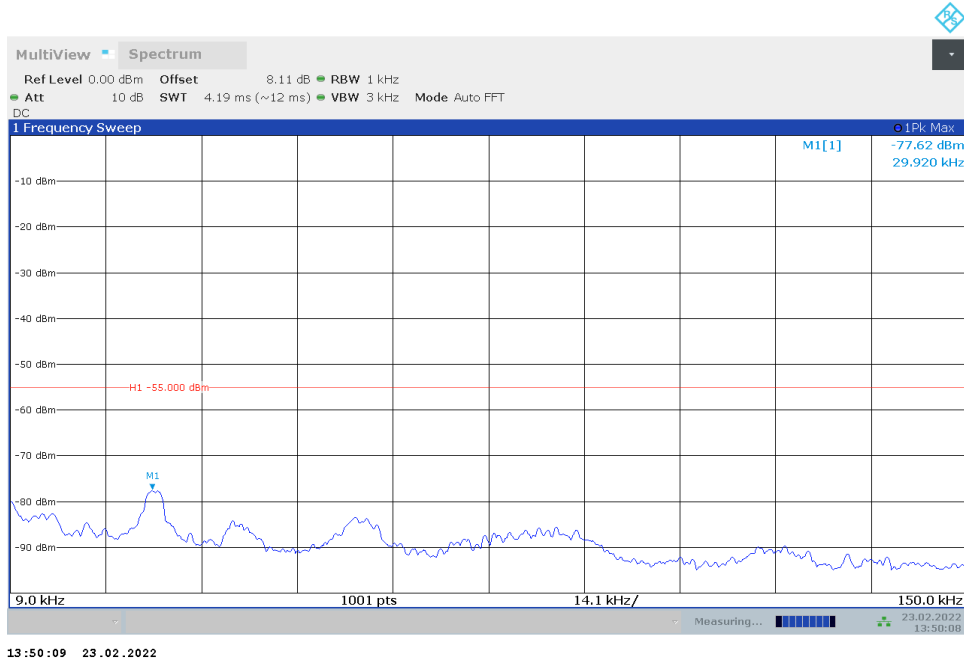


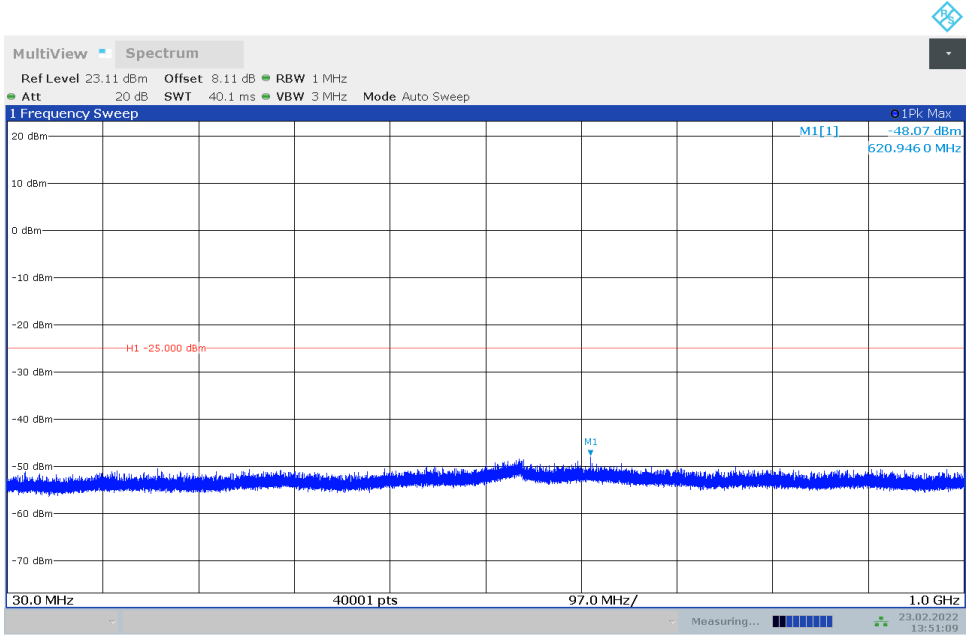
13:45:17 23.02.2022



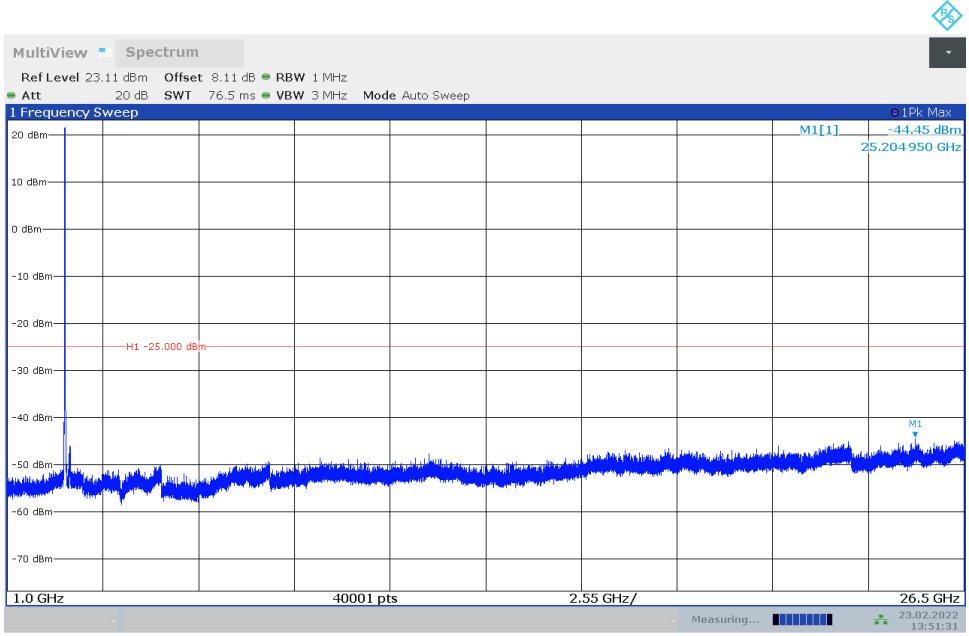
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6.2.18 CA_7C_TM2_HCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



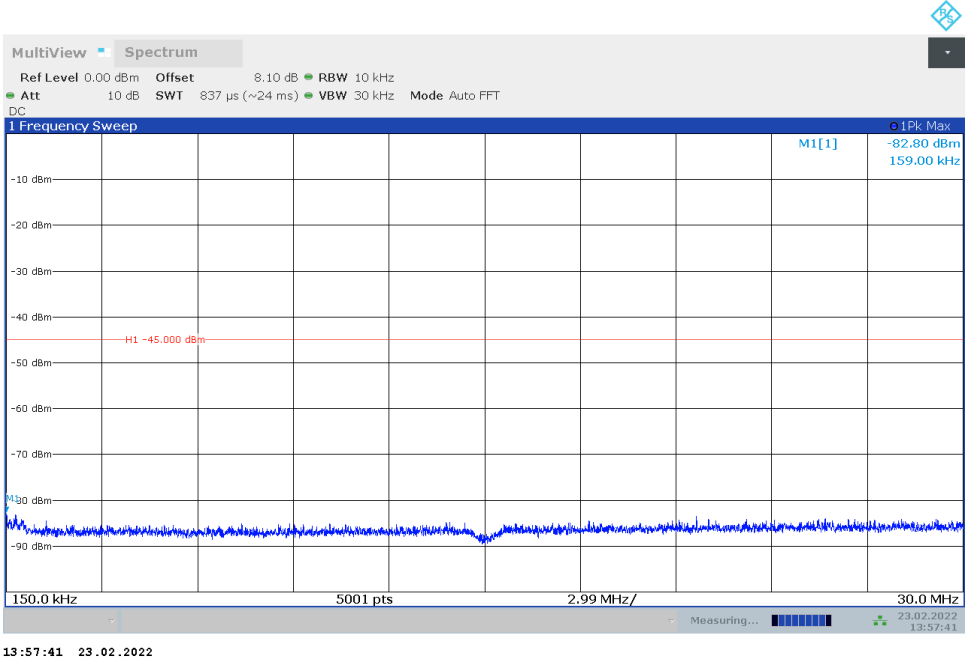


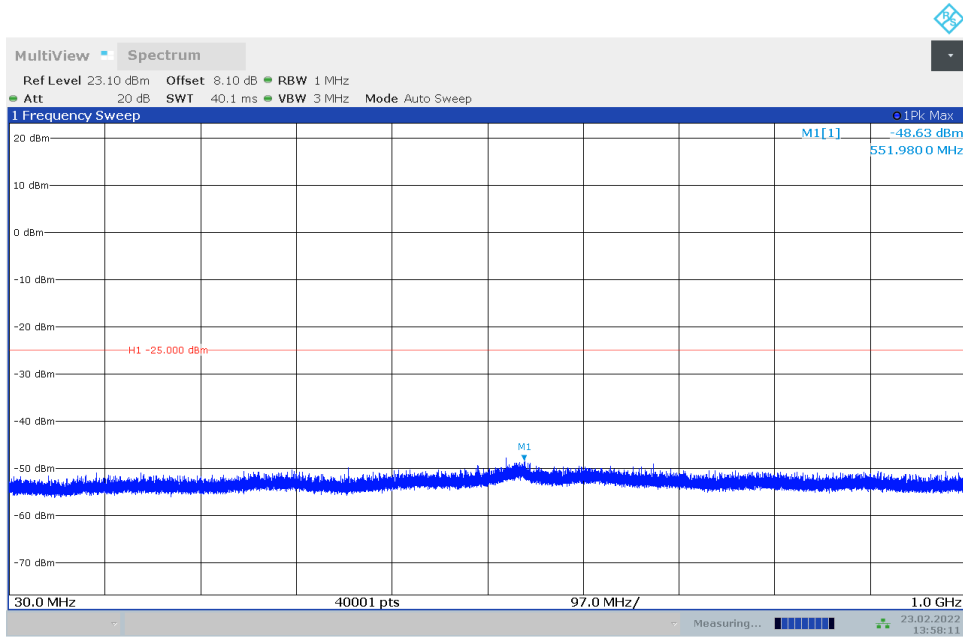
13:51:09 23.02.2022



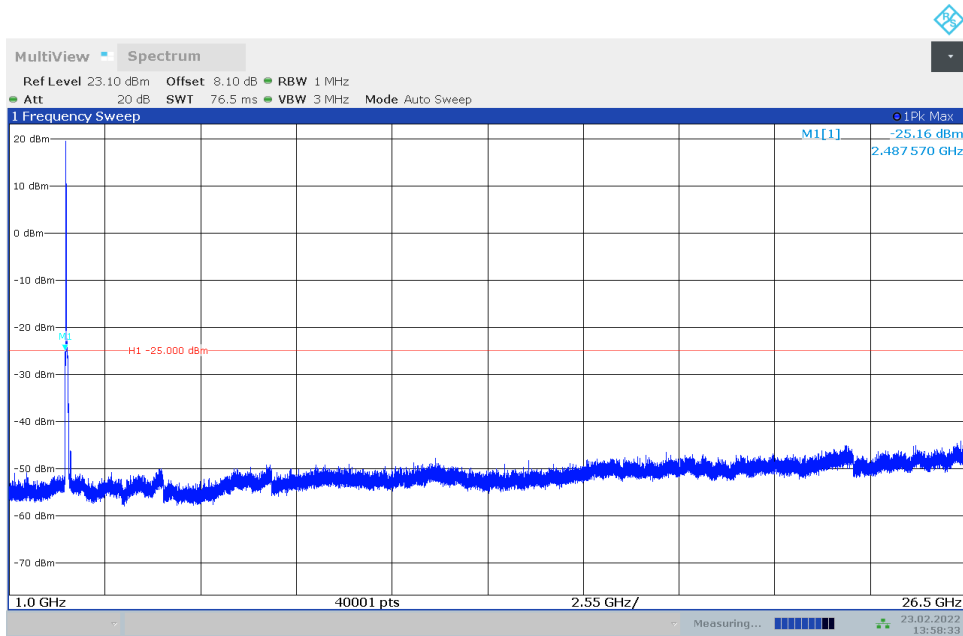
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6.2.19 CA_7C_TM2_LCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



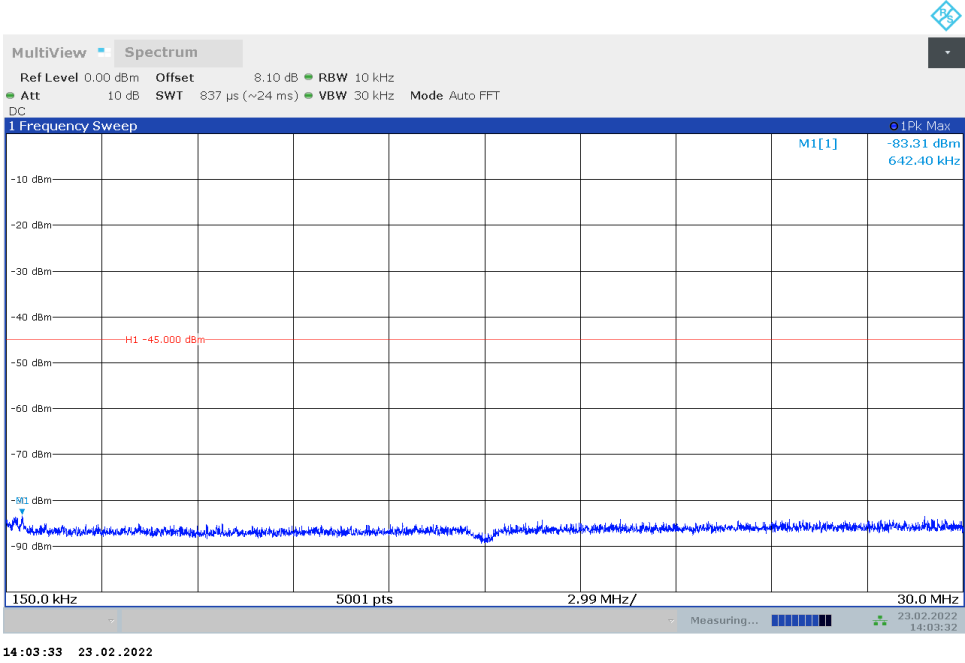
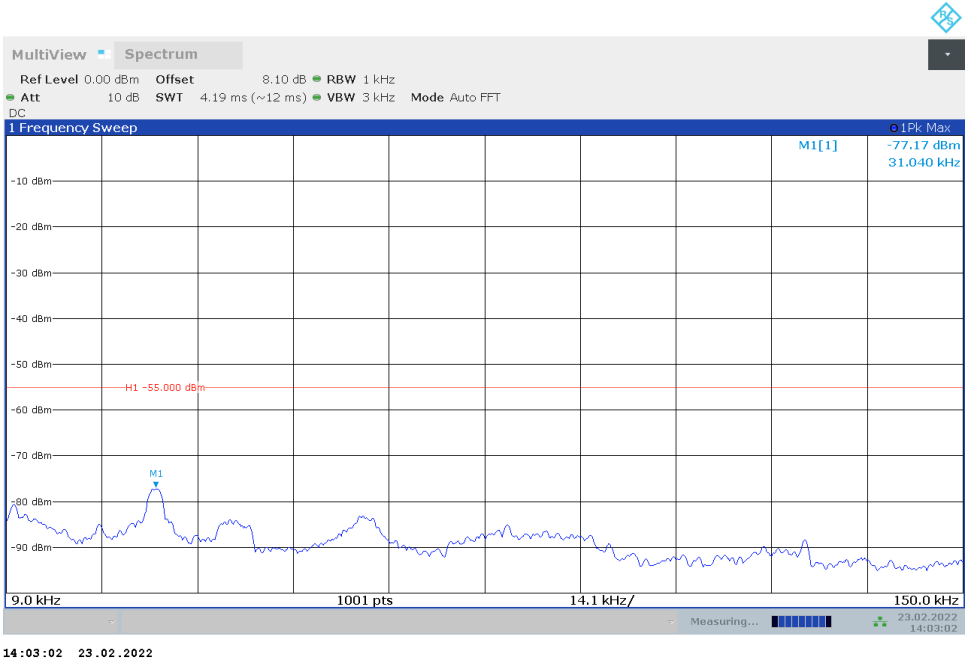


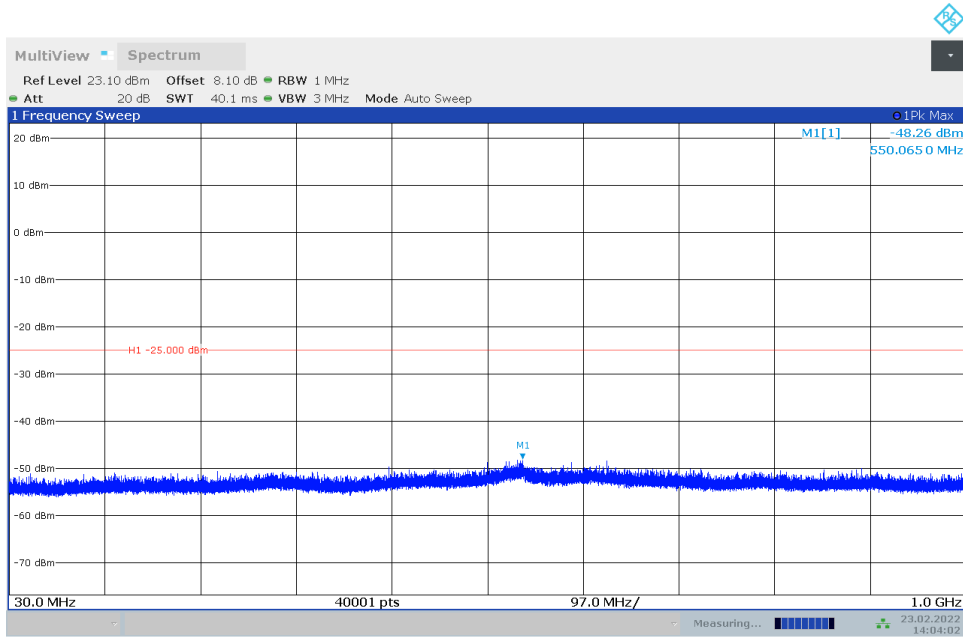
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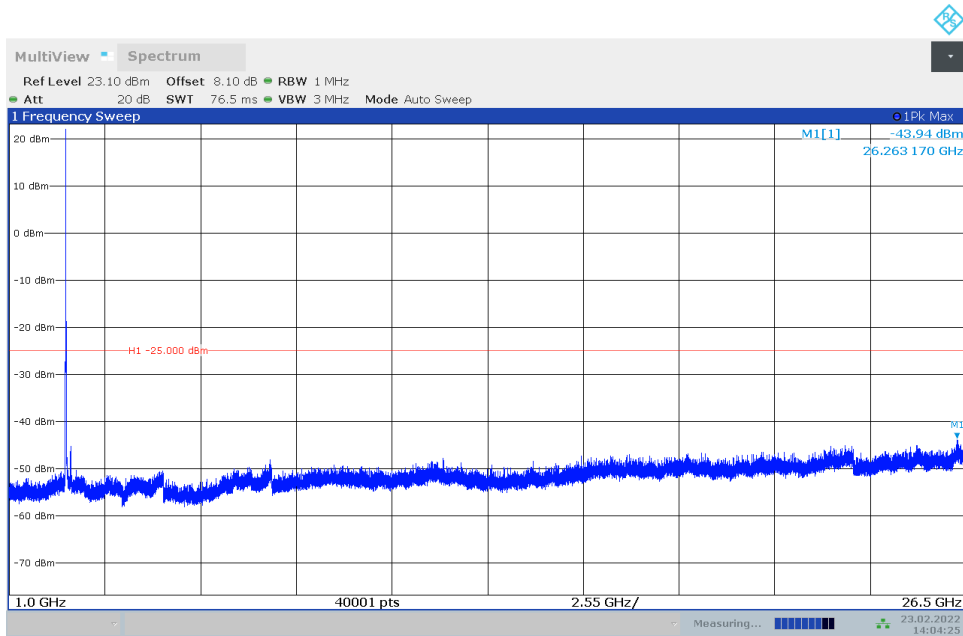
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6.2.20 CA_7C_TM2_LCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



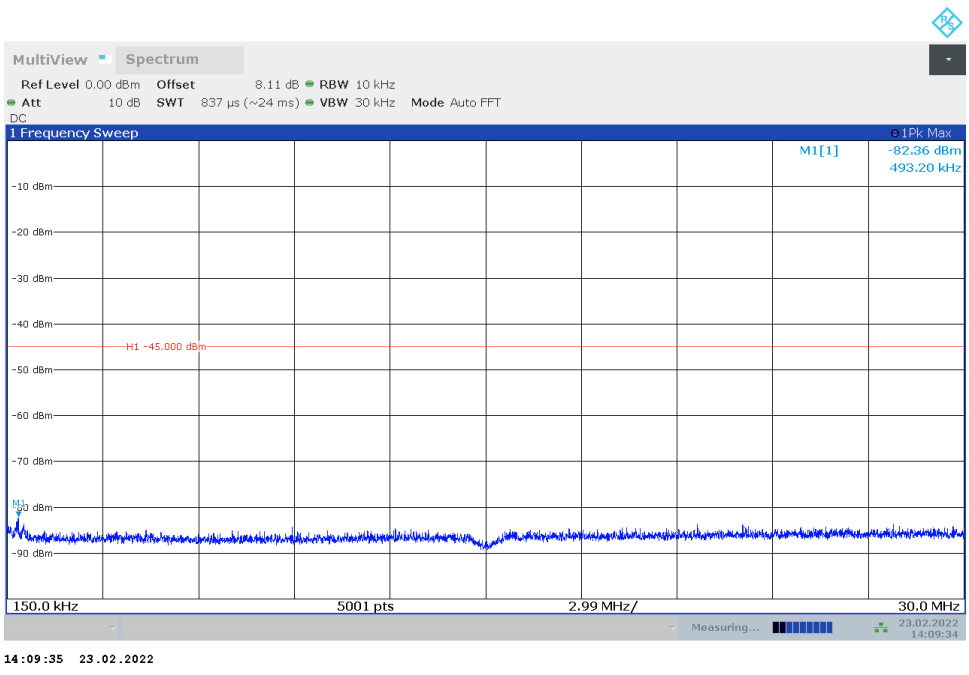


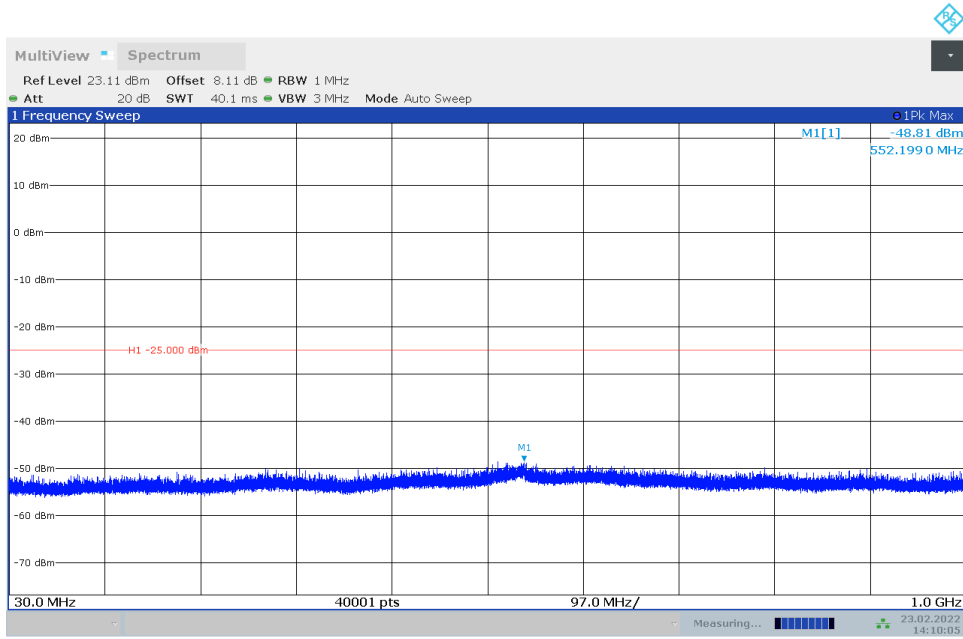
14:04:03 23.02.2022



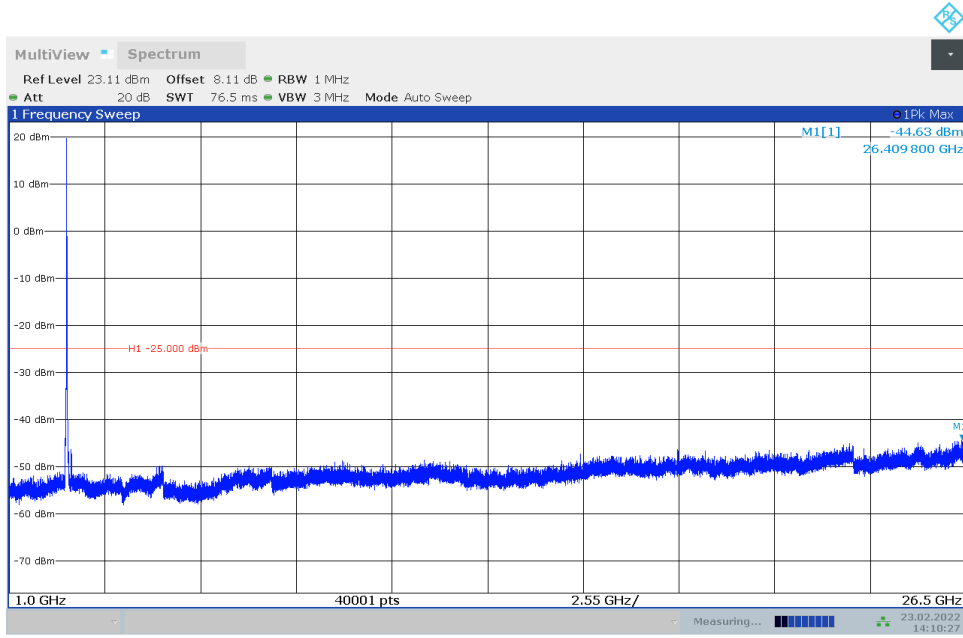
14:04:25 23.02.2022

6.2.21 CA_7C_TM2_MCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



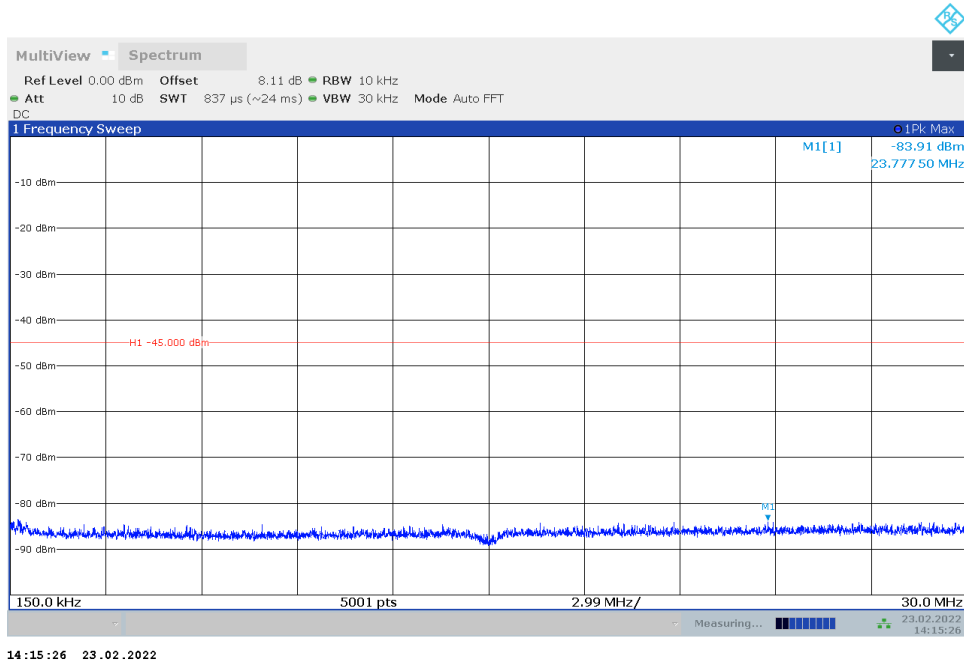
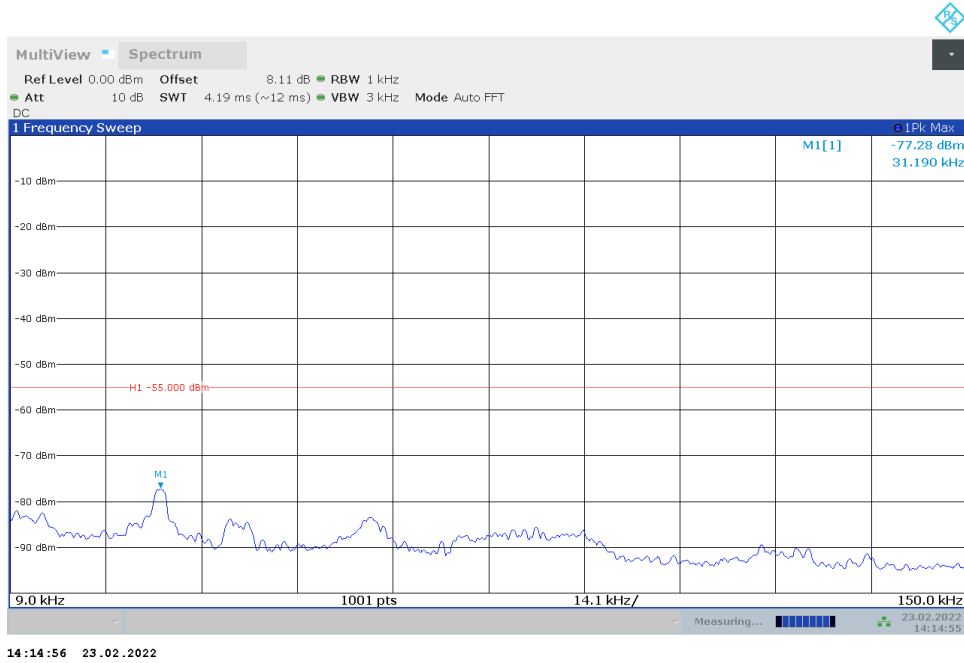


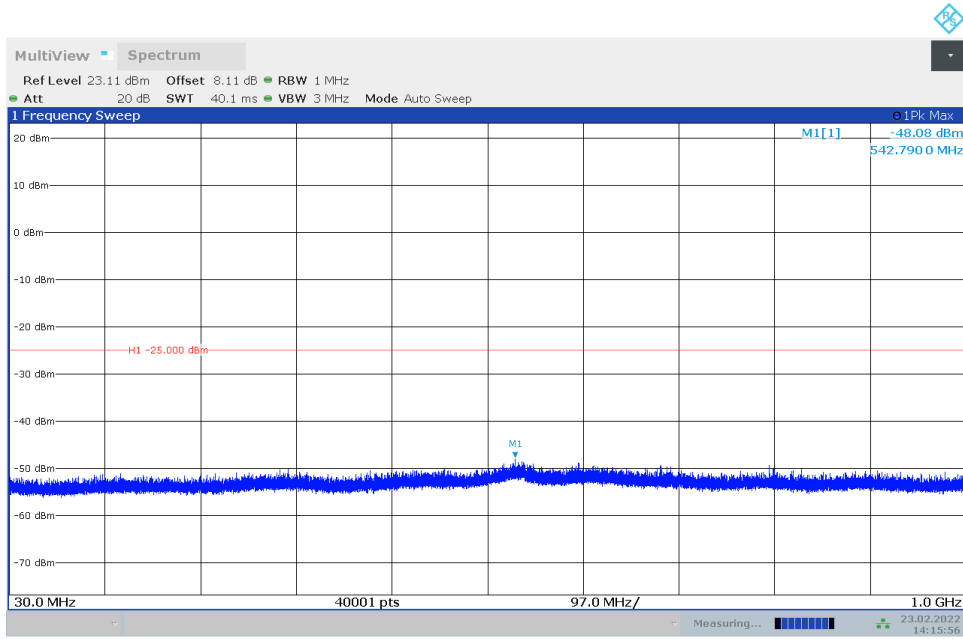
14:10:05 23.02.2022



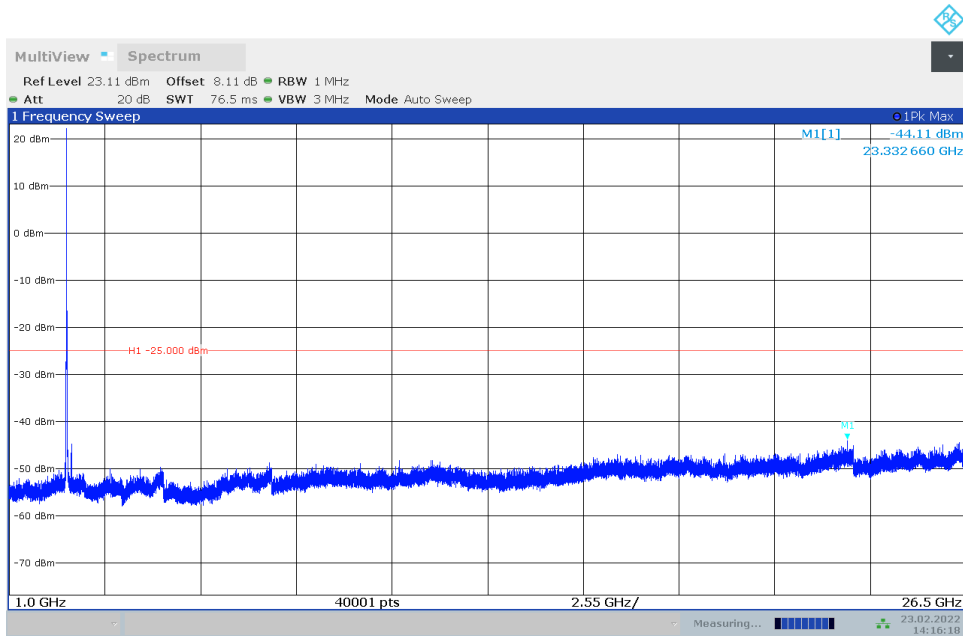
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6.2.22 CA_7C_TM2_MCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



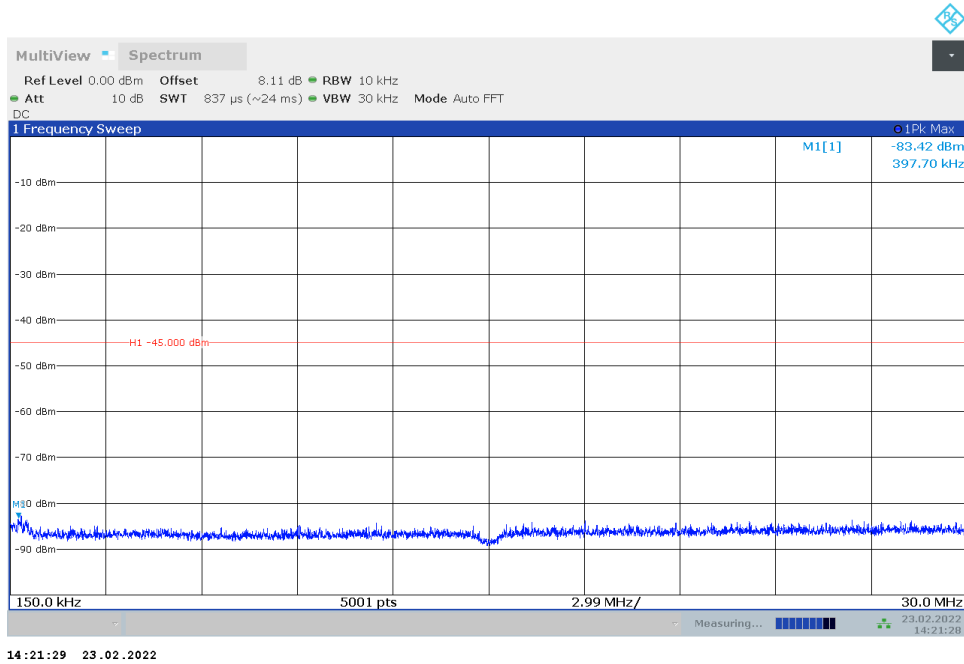
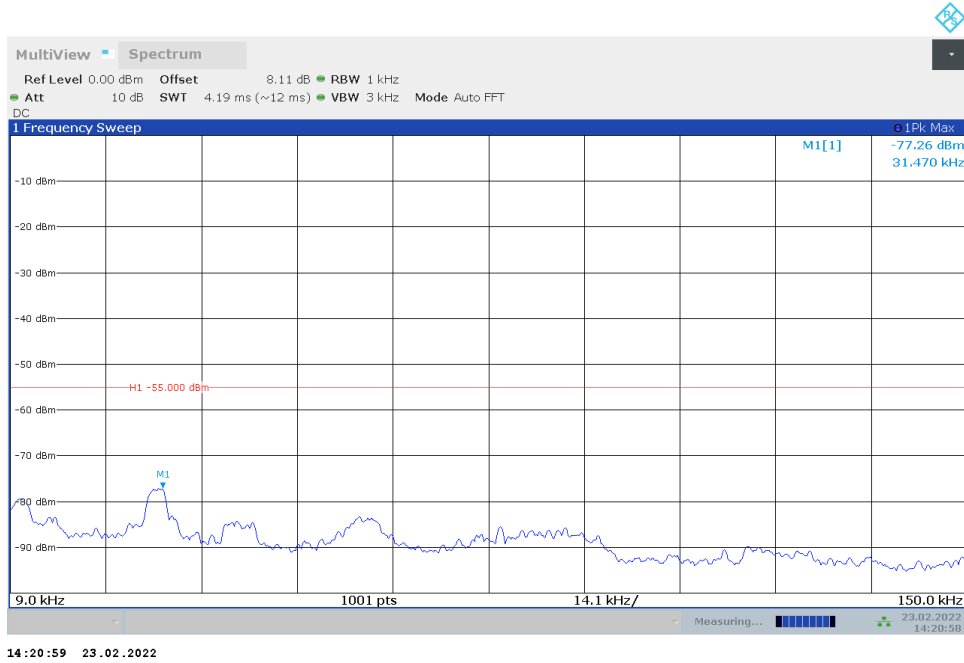


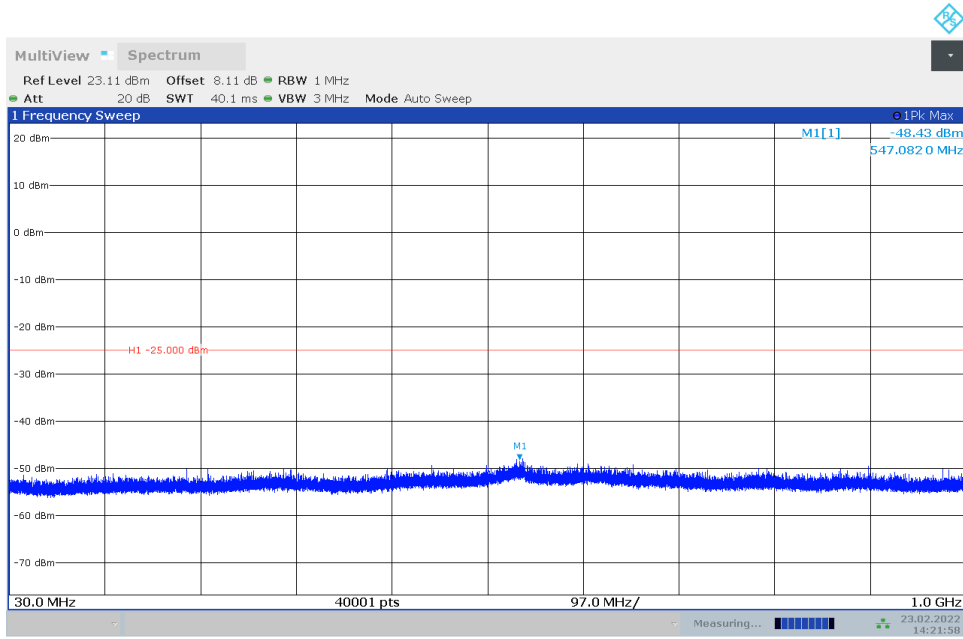
14:15:57 23.02.2022



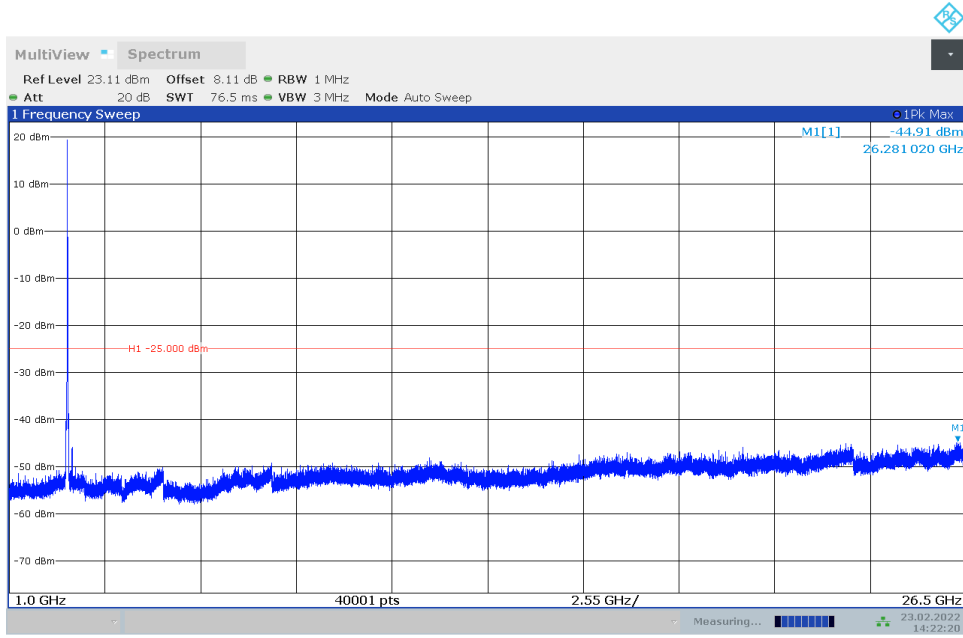
14:16:19 23.02.2022

6.2.23 CA_7C_TM2_HCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



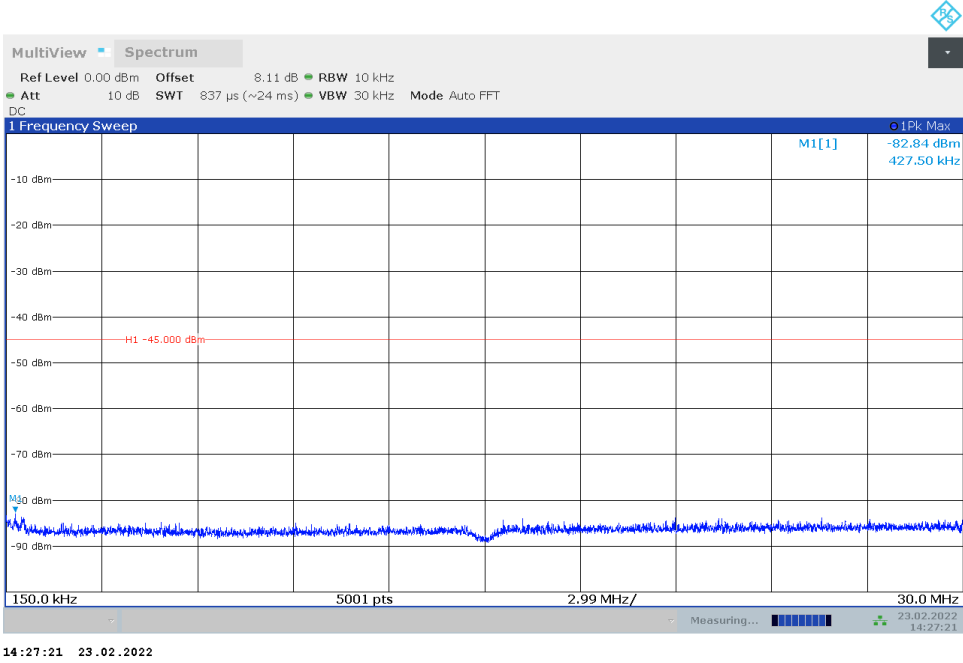
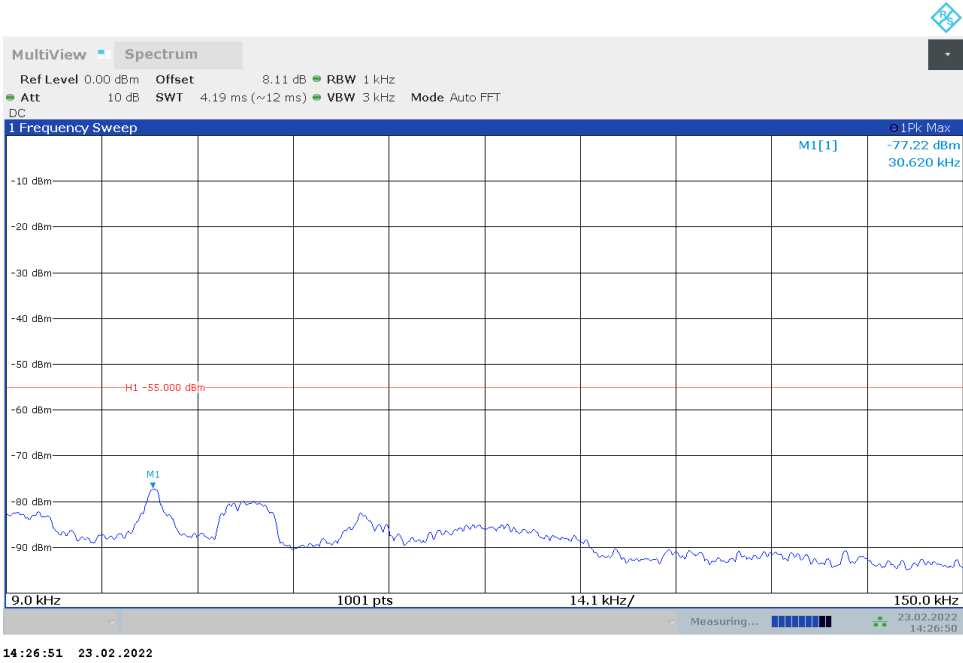


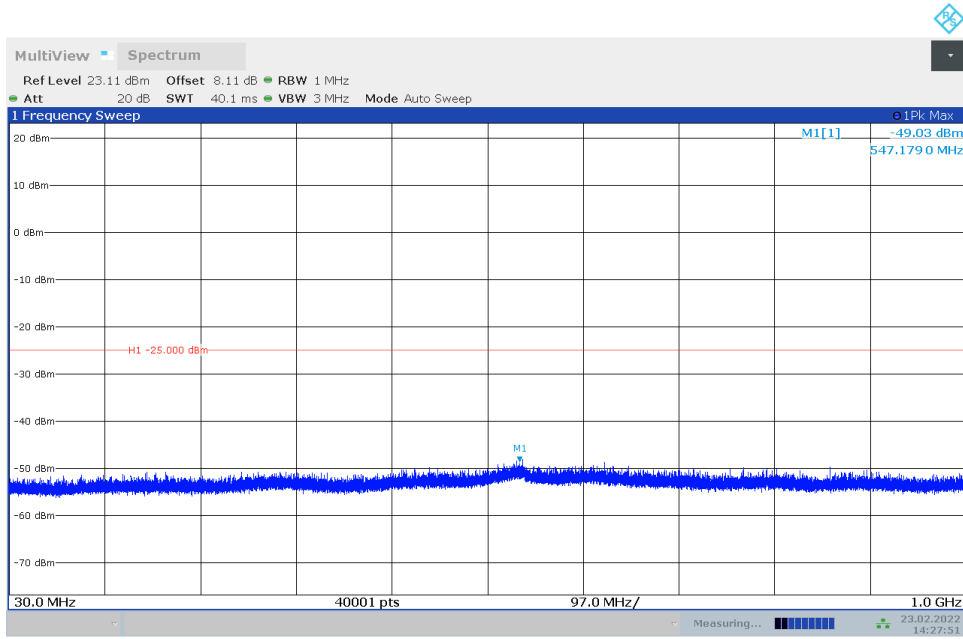
14:21:59 23.02.2022



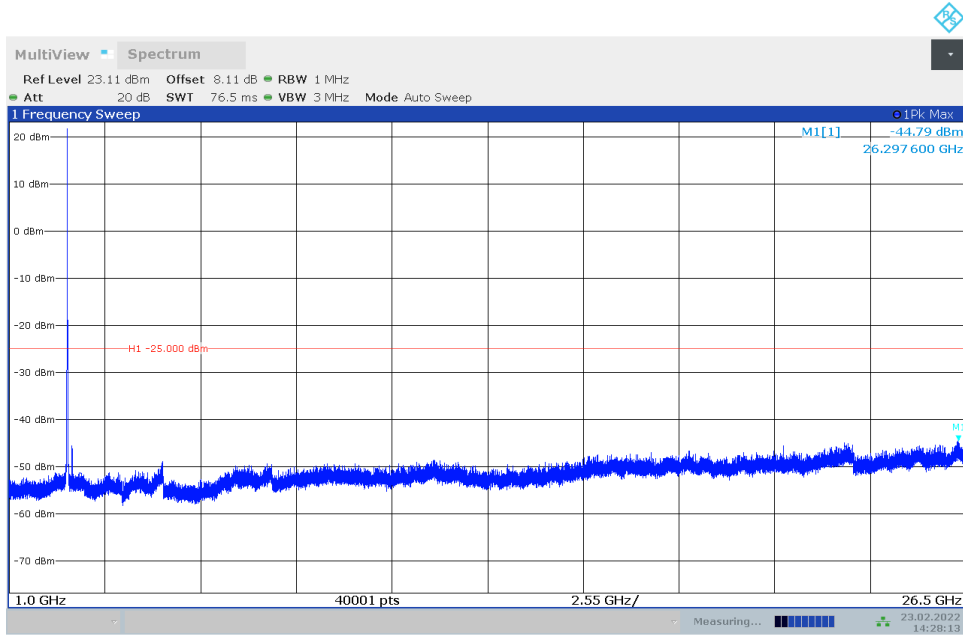
14:22:21 23.02.2022

6.2.24 CA_7C_TM2_HCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



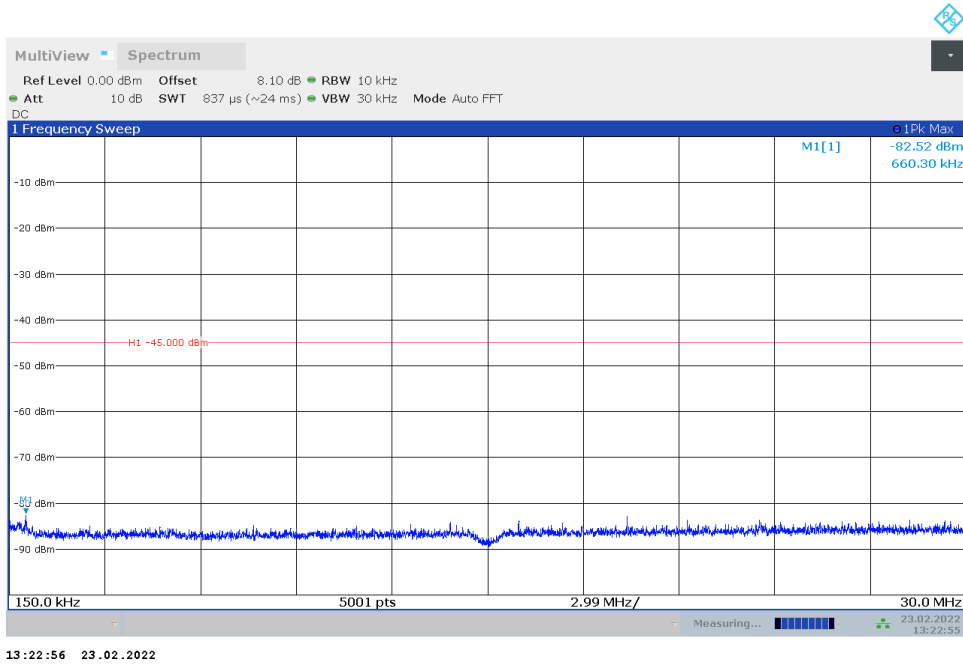


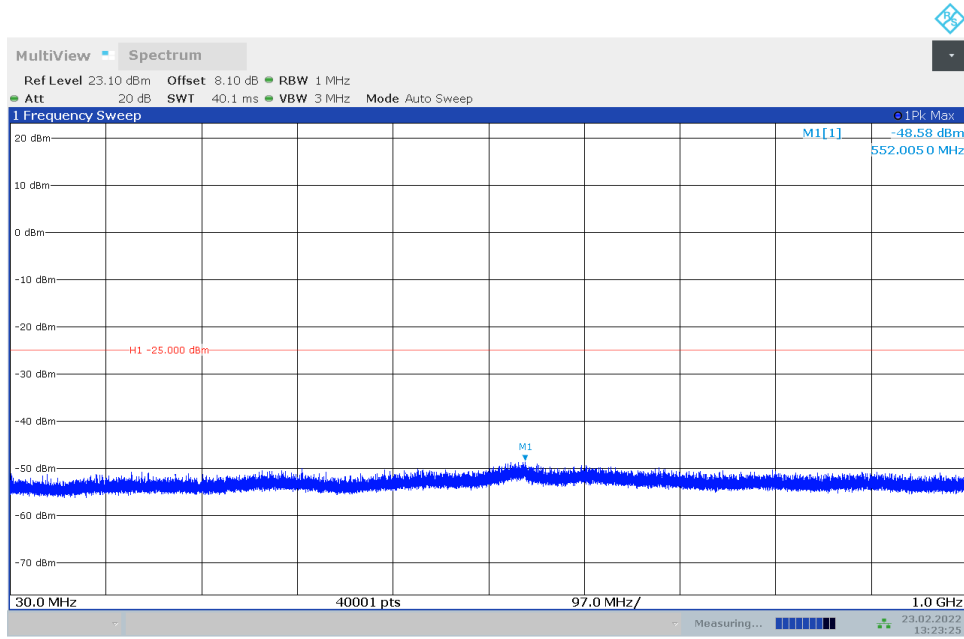
14:27:51 23.02.2022



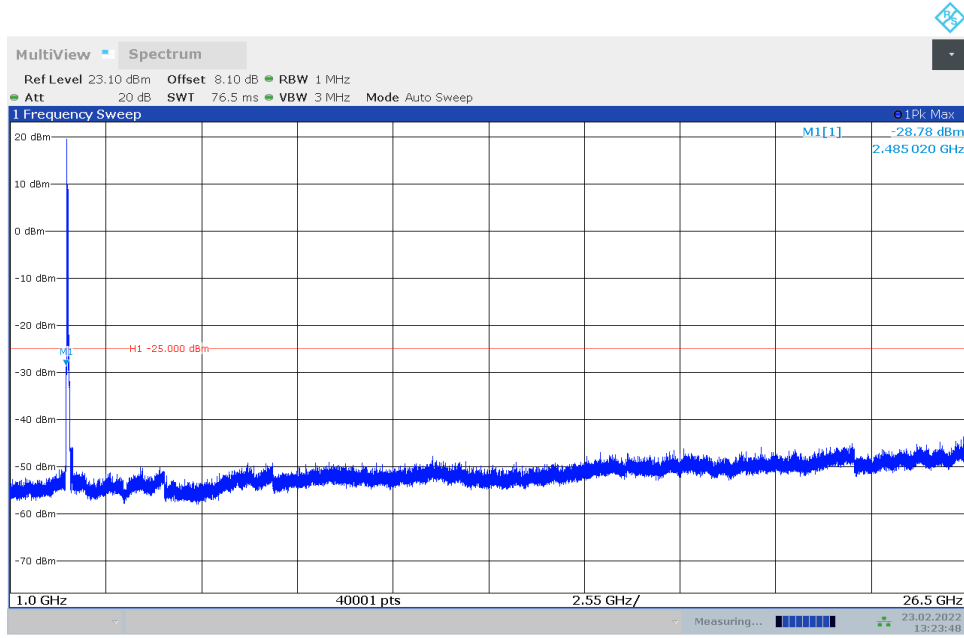
14:28:13 23.02.2022

6.2.25 CA_7C_TM3_LCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



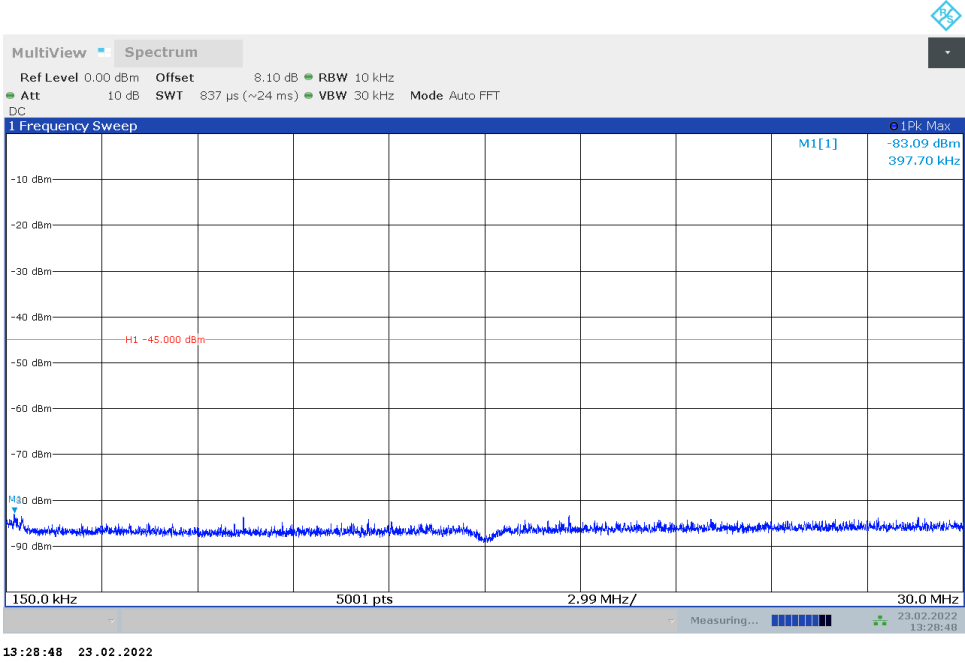
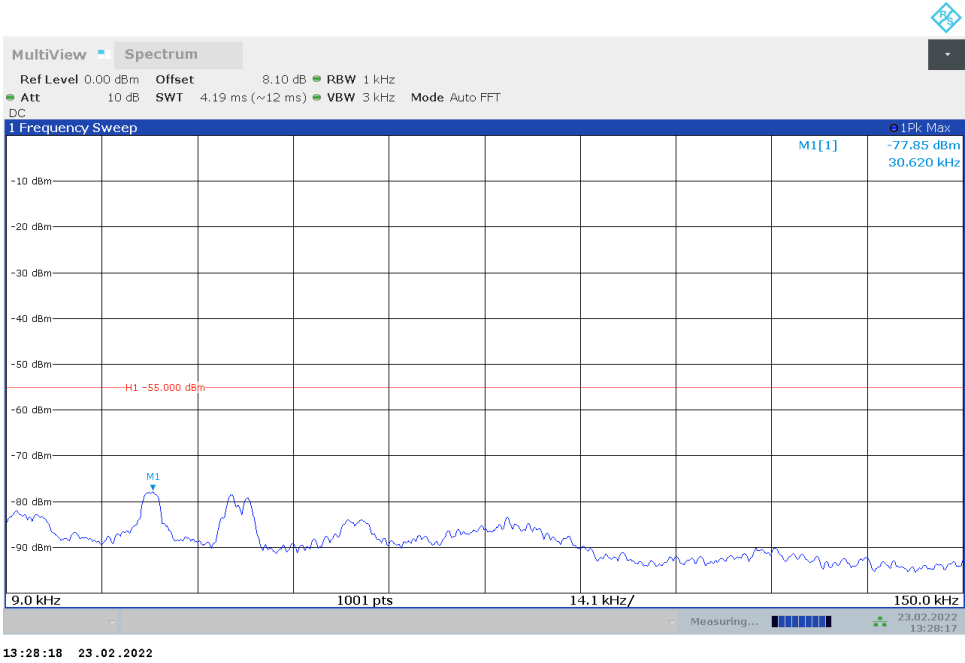


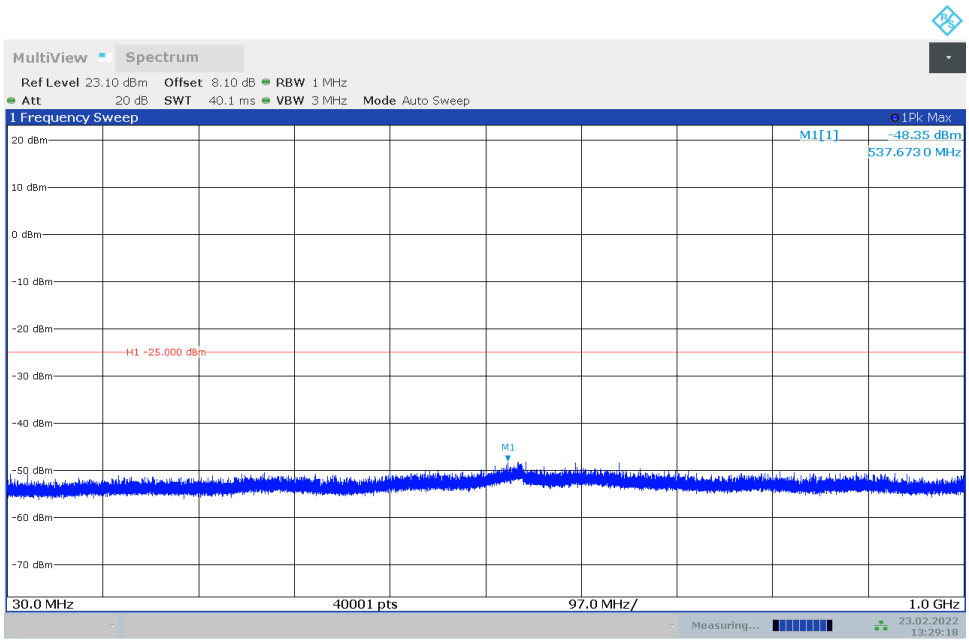
13:23:26 23.02.2022



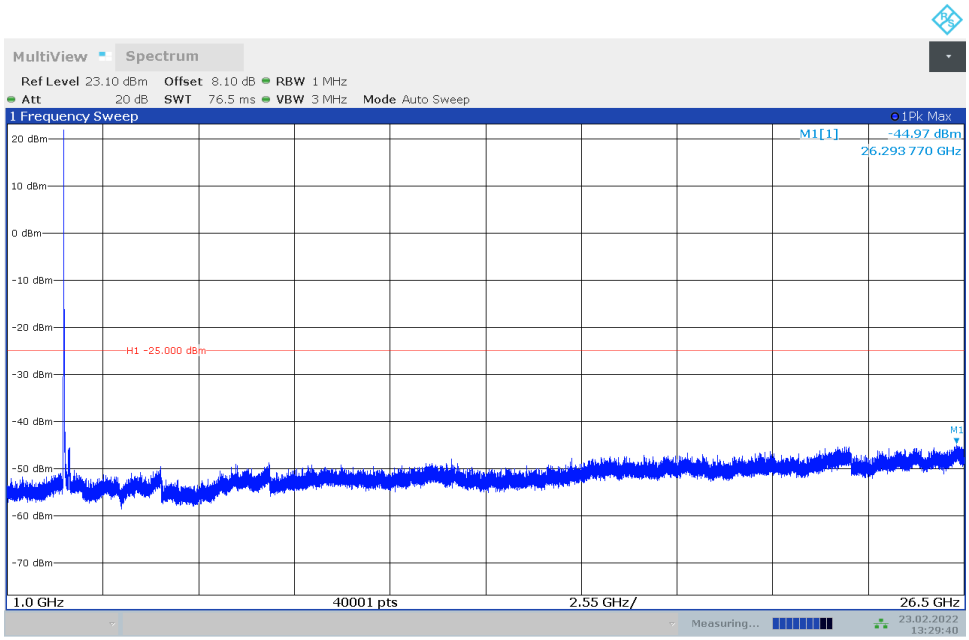
13:23:49 23.02.2022

6.2.26 CA_7C_TM3_LCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



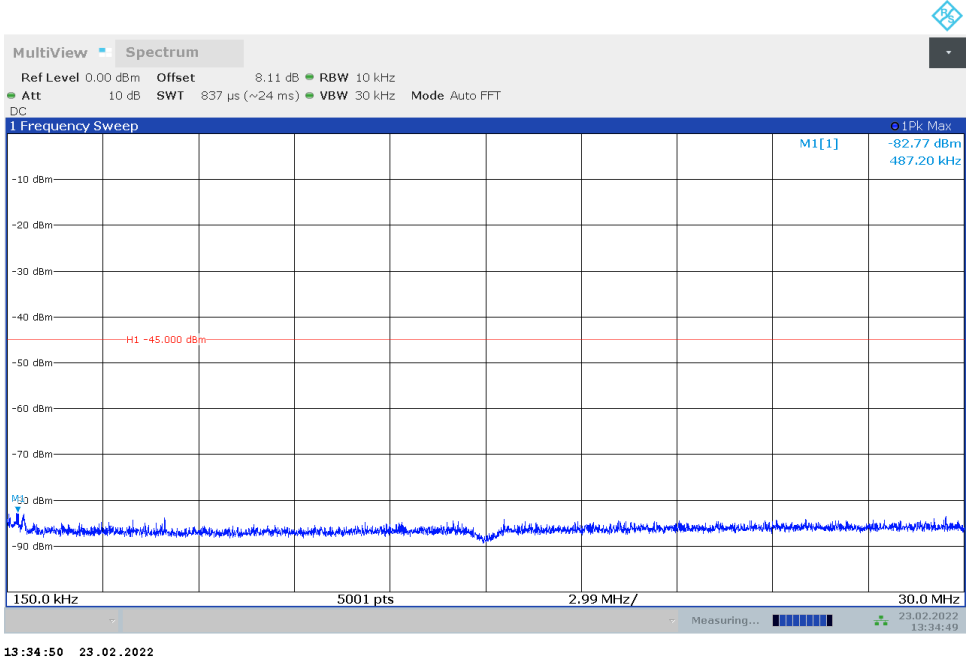
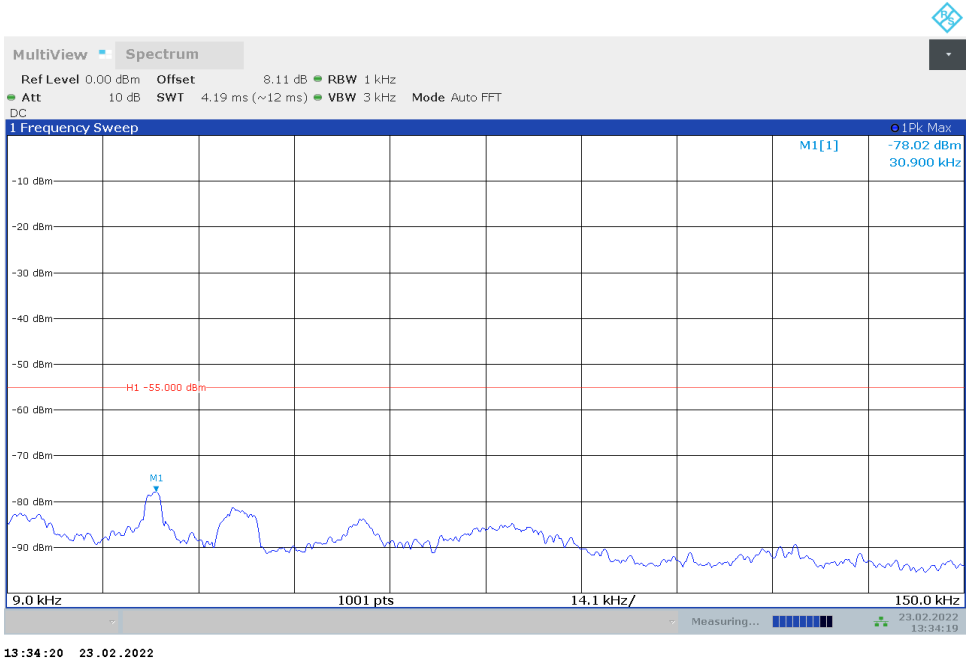


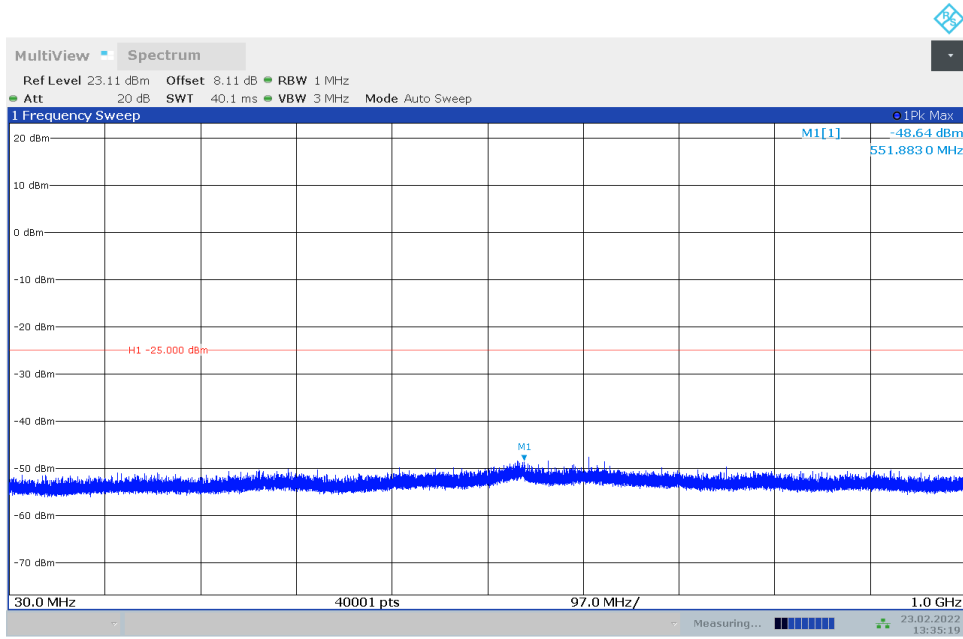
13:29:18 23.02.2022



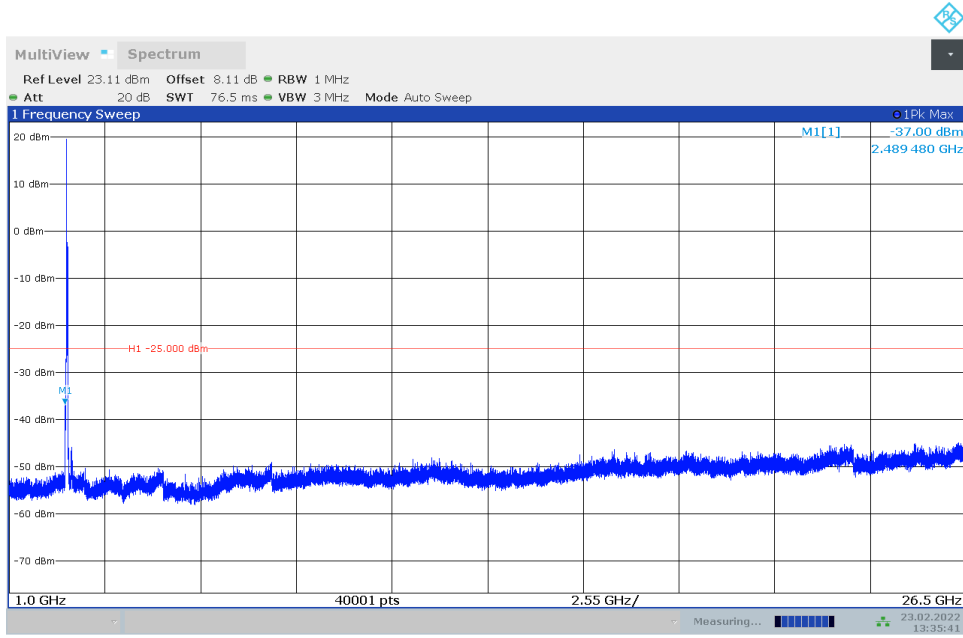
13:29:40 23.02.2022

6.2.27 CA_7C_TM3_MCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



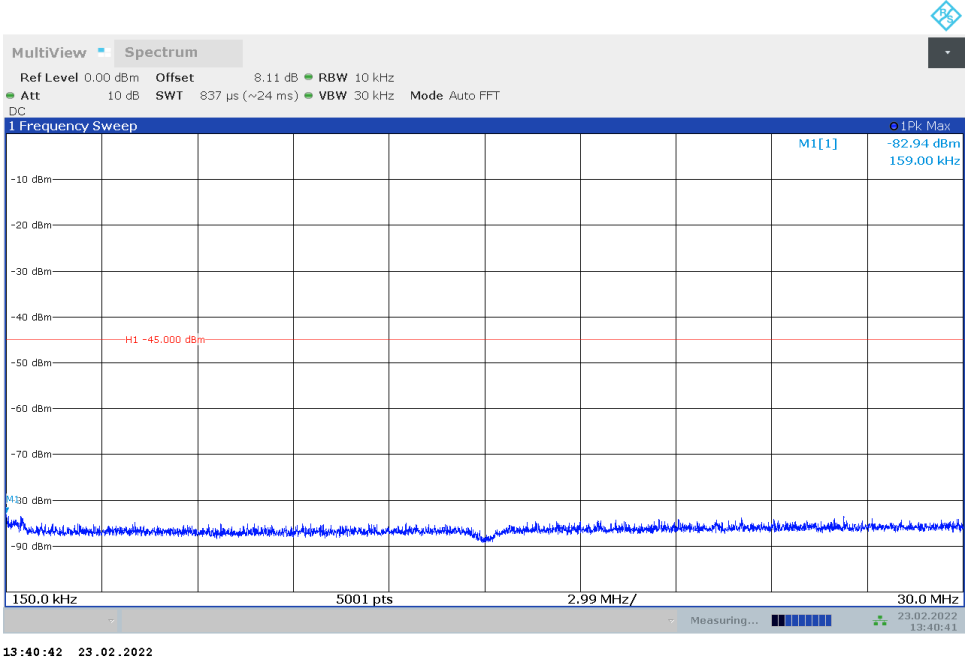
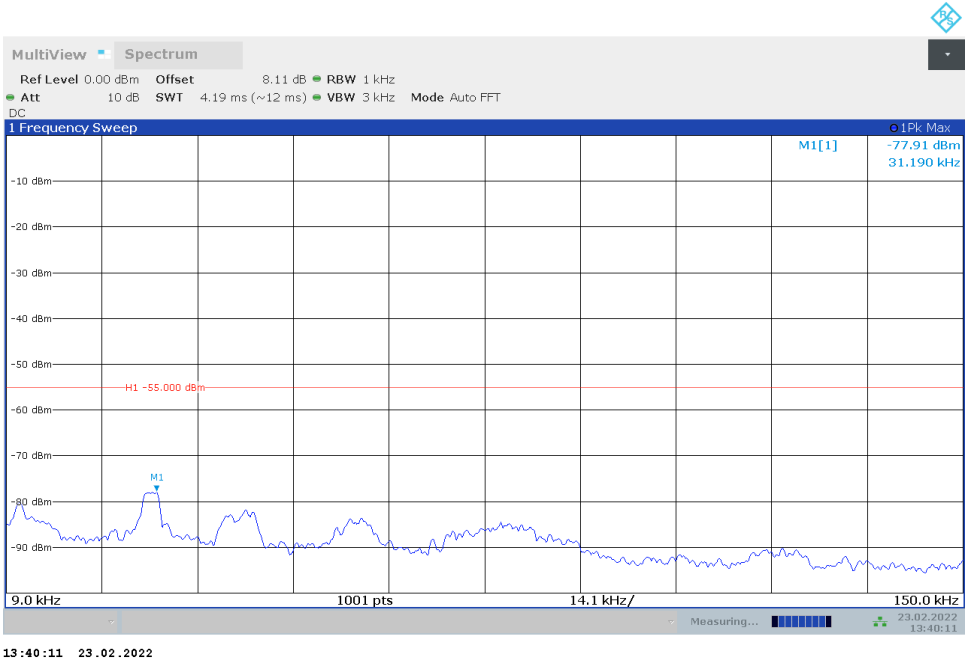


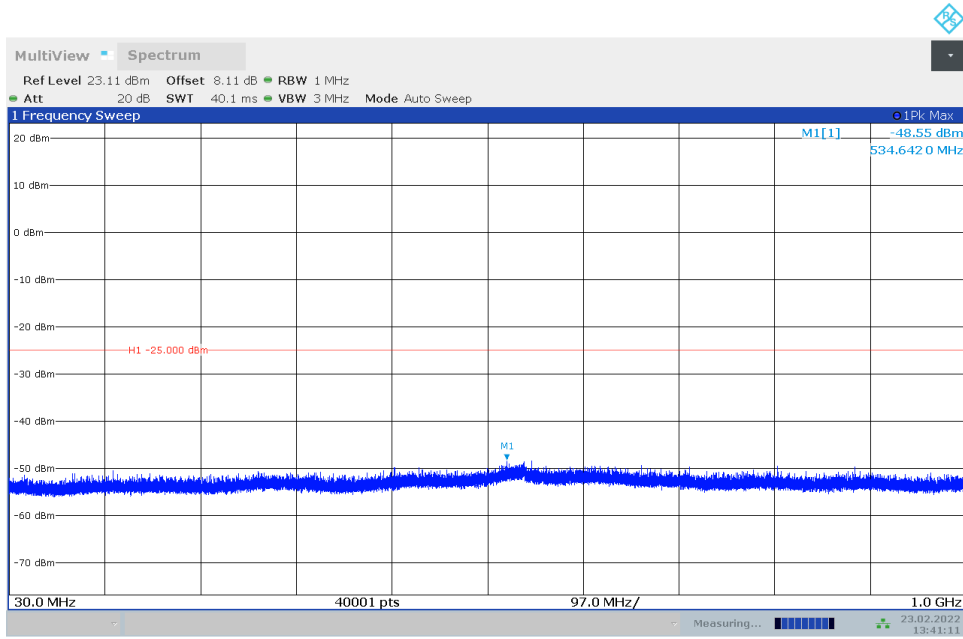
13:35:20 23.02.2022



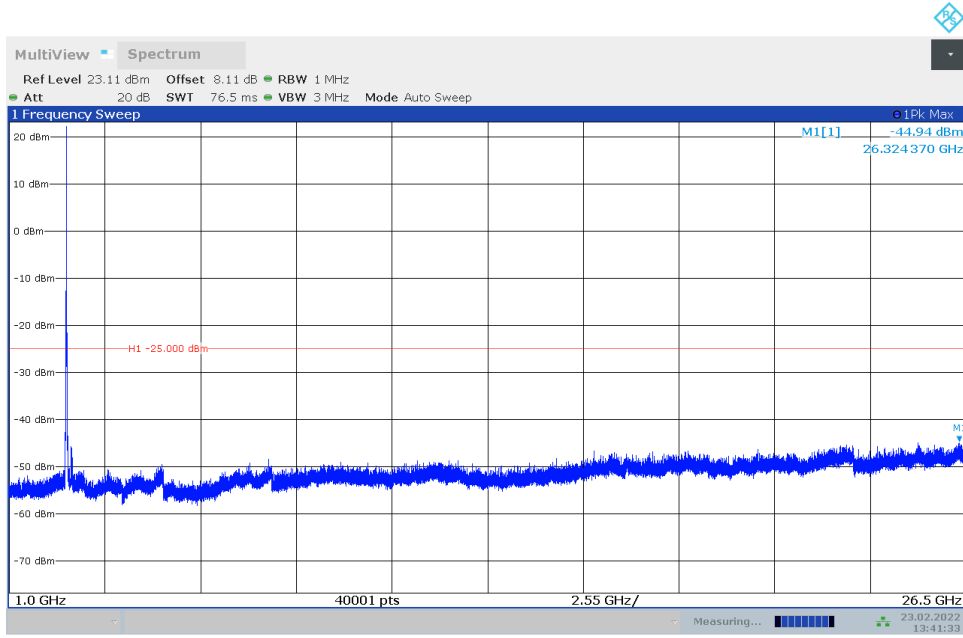
13:35:42 23.02.2022

6.2.28 CA_7C_TM3_MCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



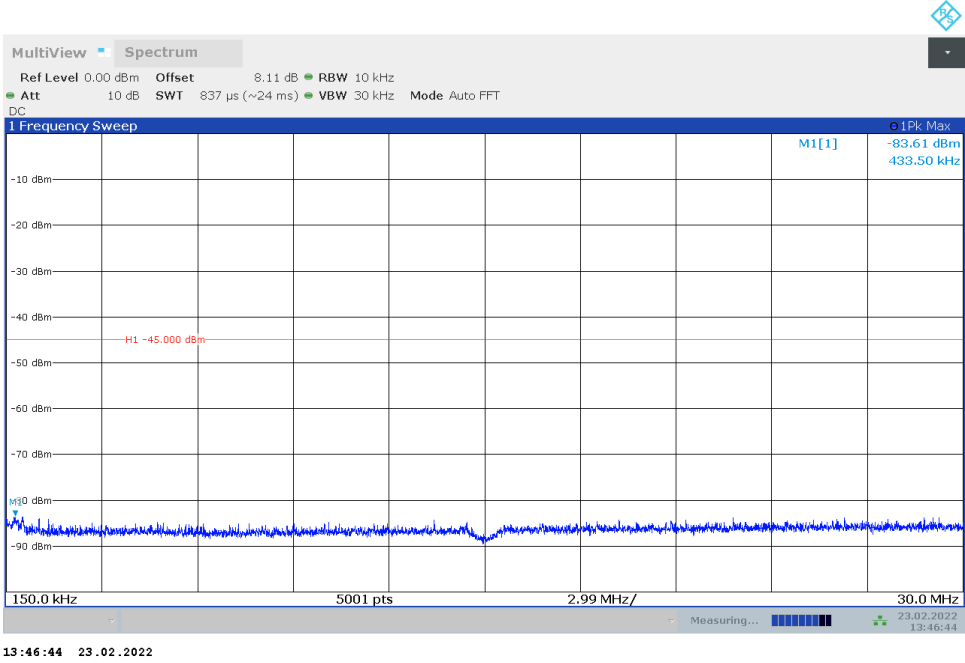
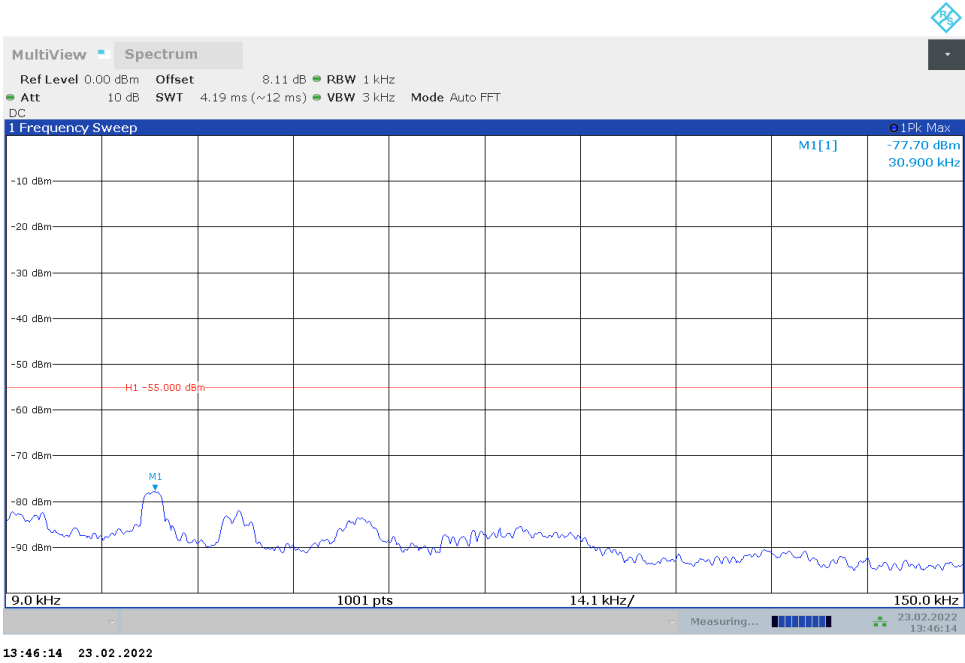


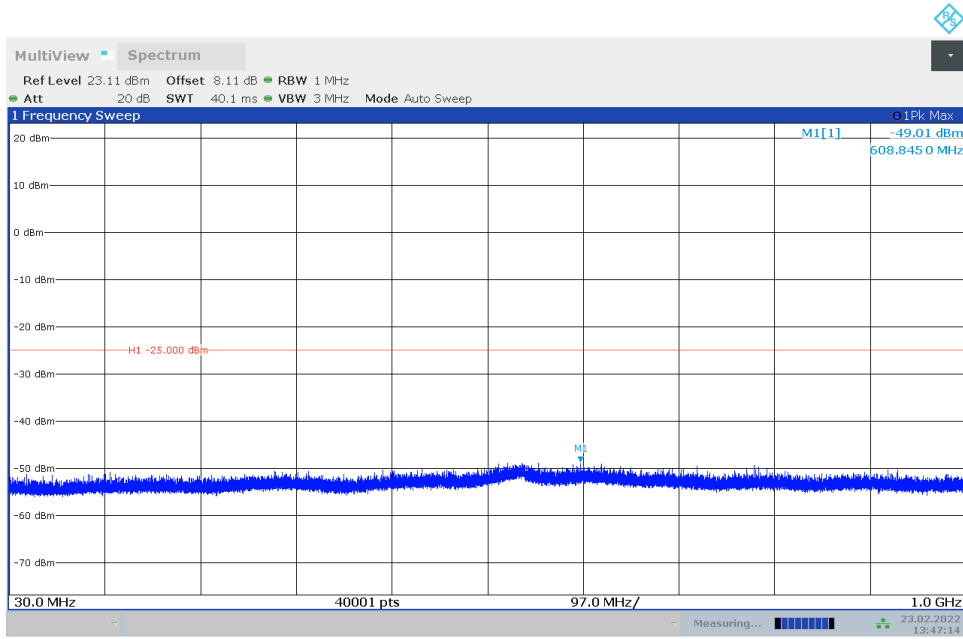
13:41:12 23.02.2022



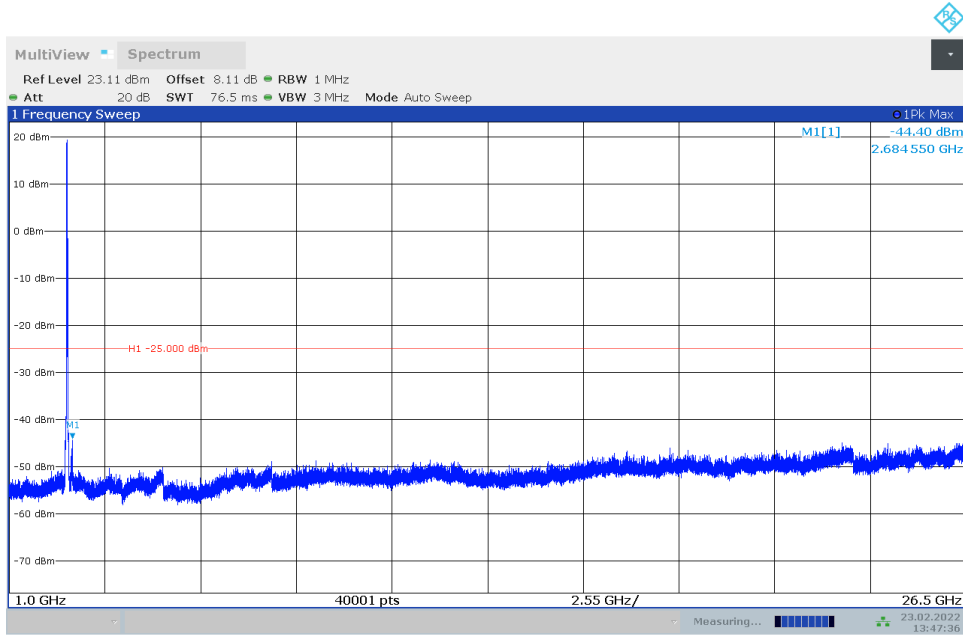
13:41:34 23.02.2022

6.2.29 CA_7C_TM3_HCH_20MHZ_20MHZ_PCCRB100#0_SCCRB100#0



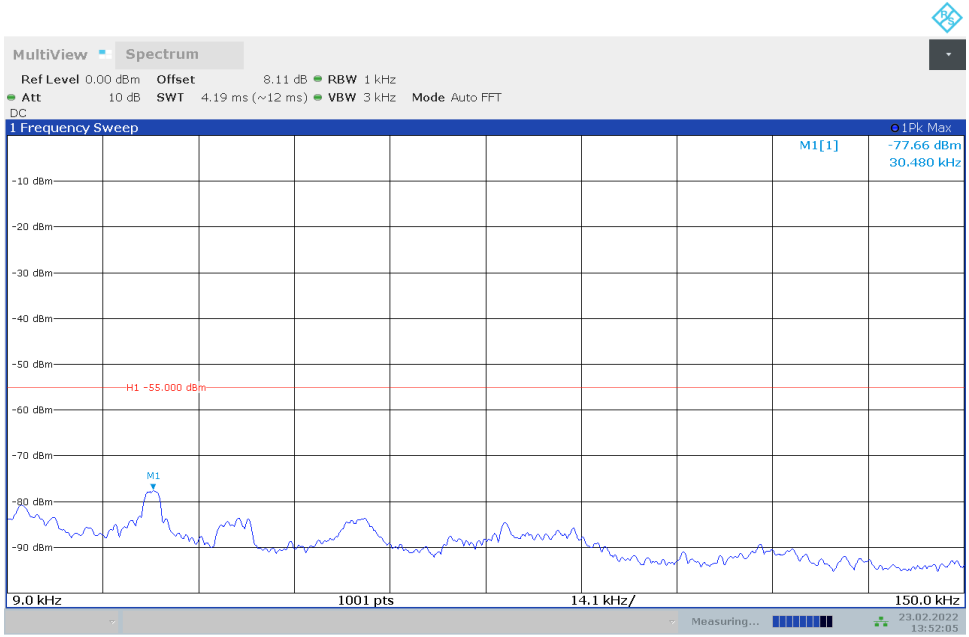


13:47:14 23.02.2022

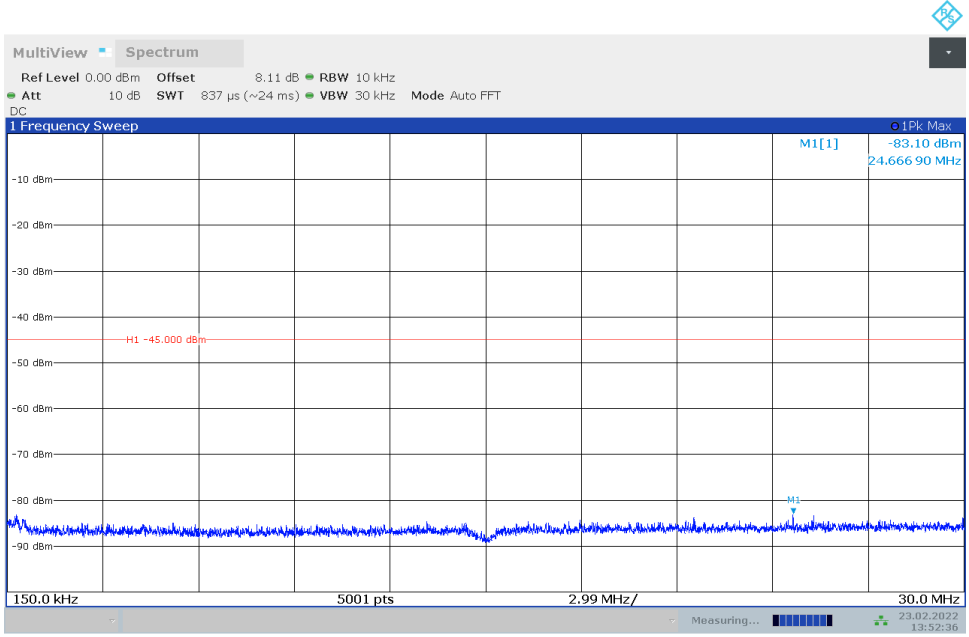


13:47:37 23.02.2022

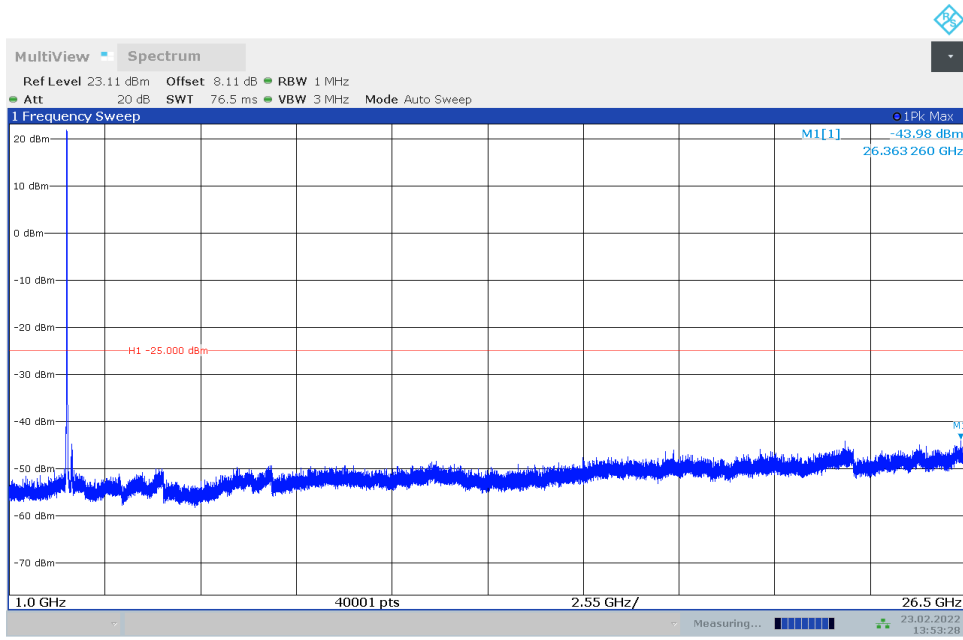
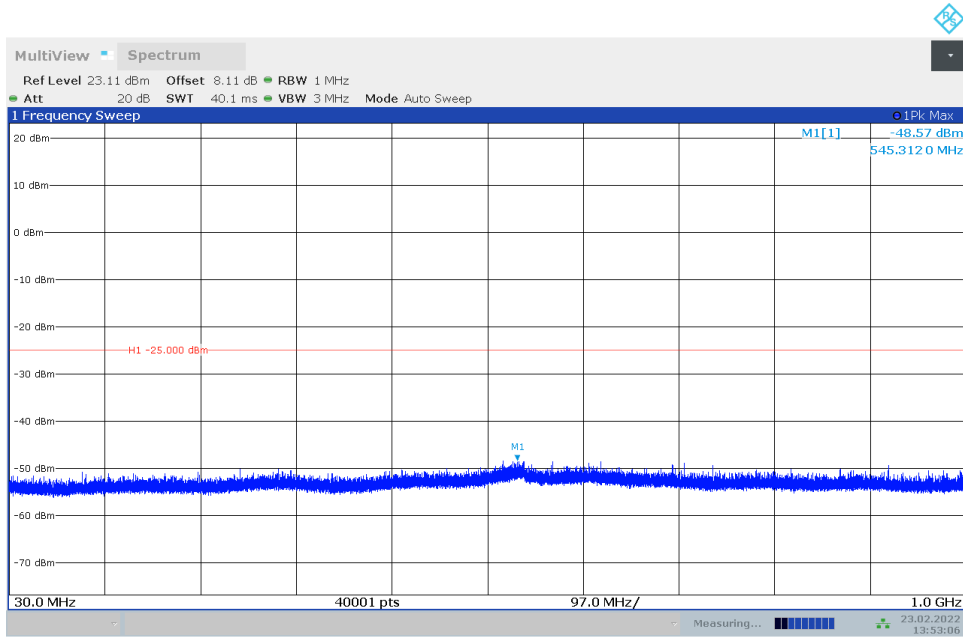
6.2.30 CA_7C_TM3_HCH_20MHZ_20MHZ_PCCRB1#0_SCCRB0#0



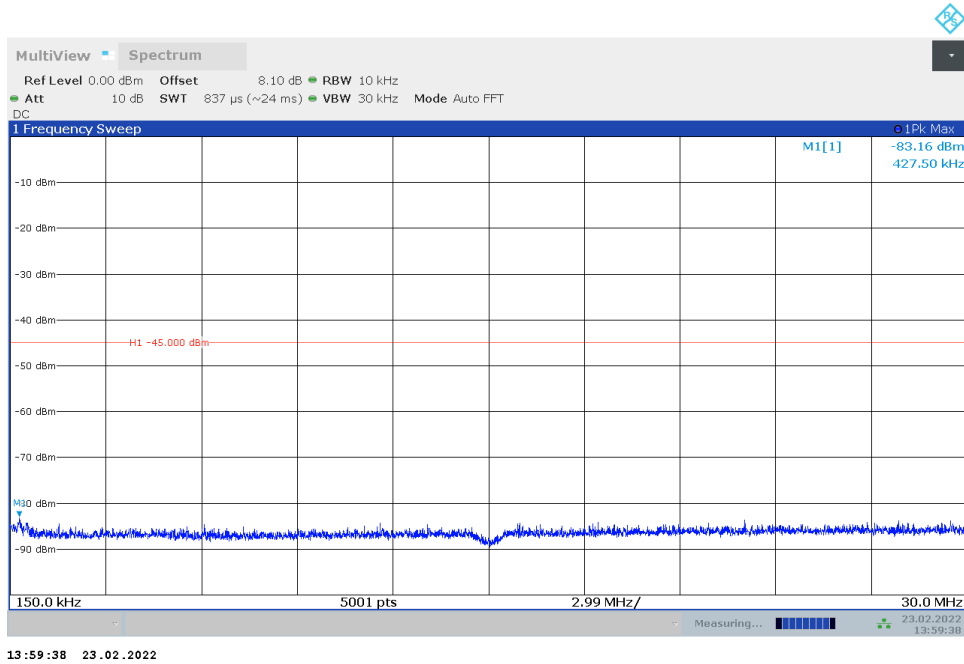
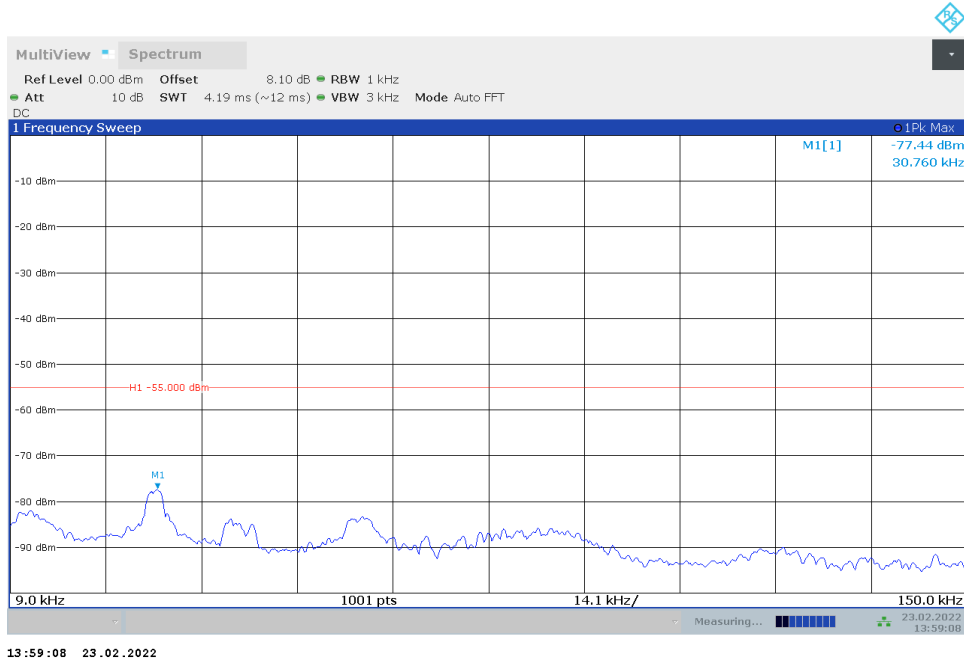
13:52:06 23.02.2022

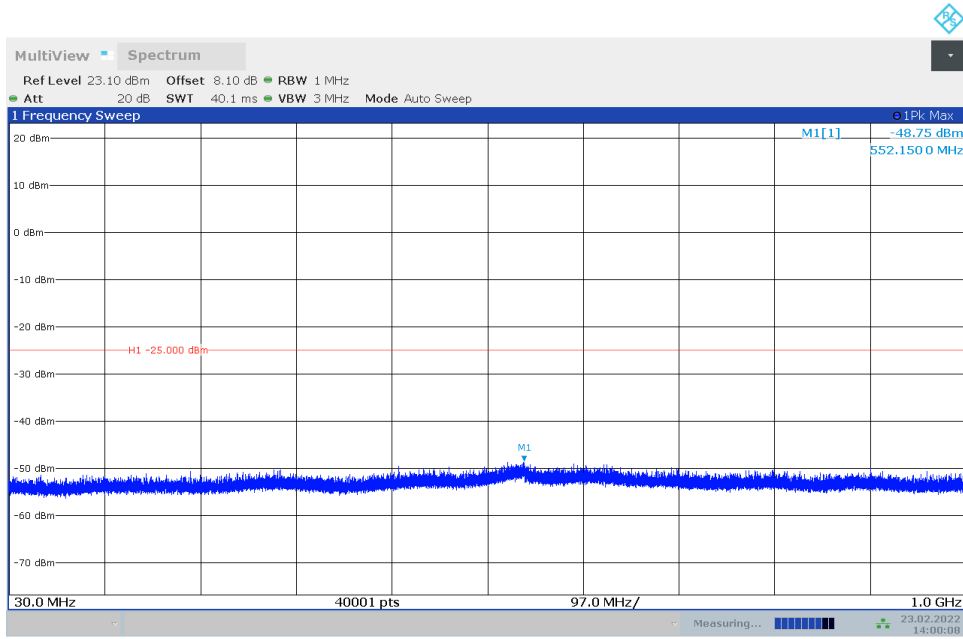


13:52:36 23.02.2022

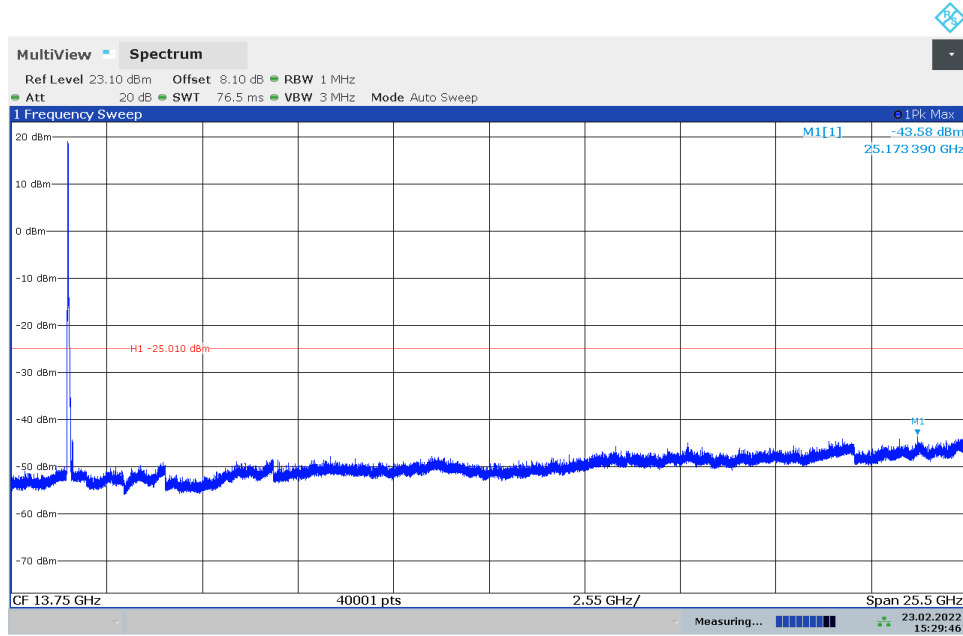


6.2.31 CA_7C_TM3_LCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



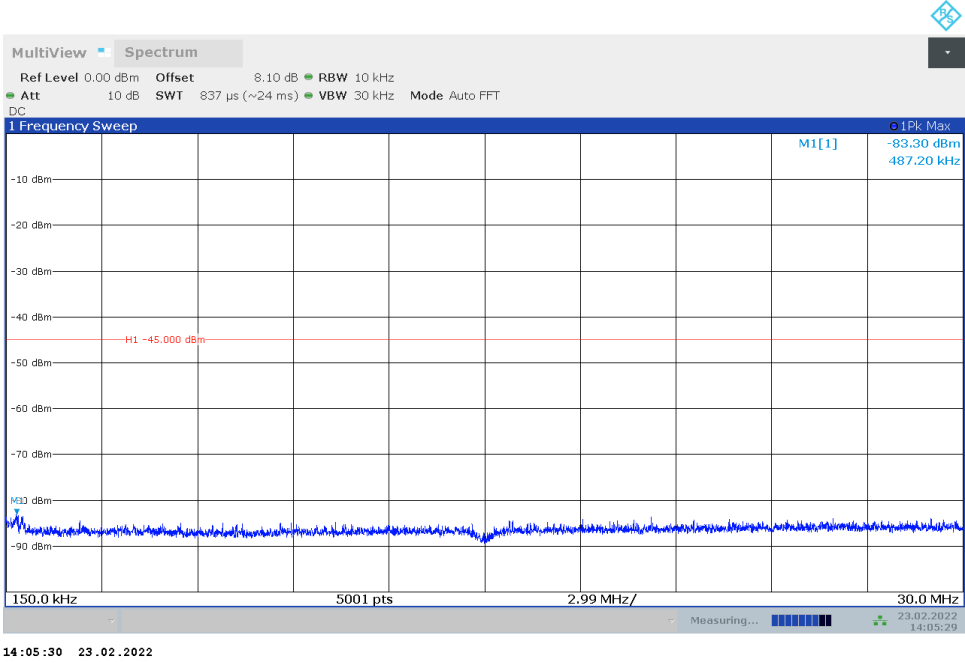
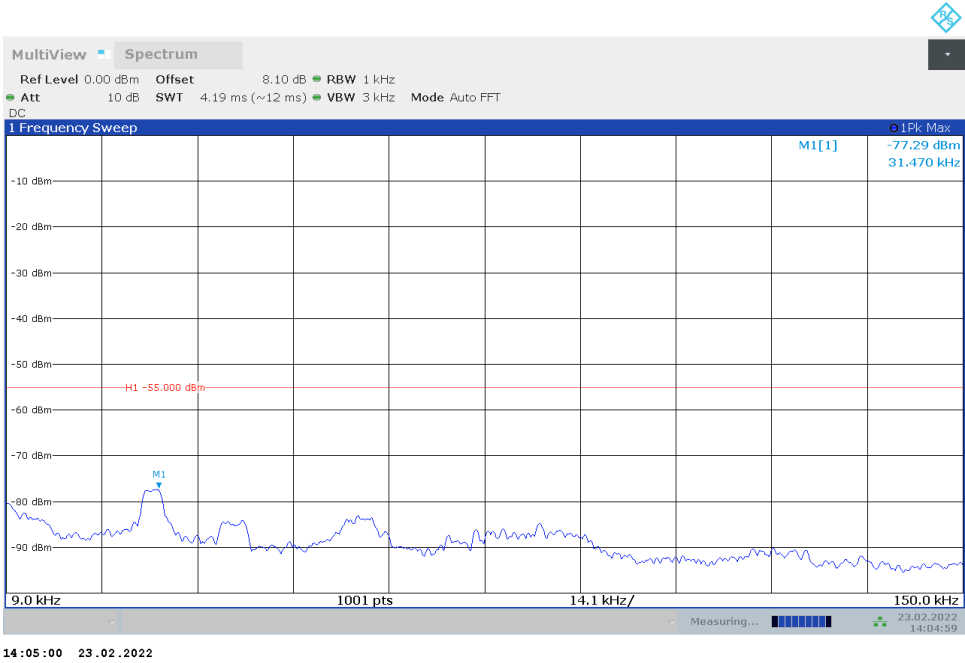


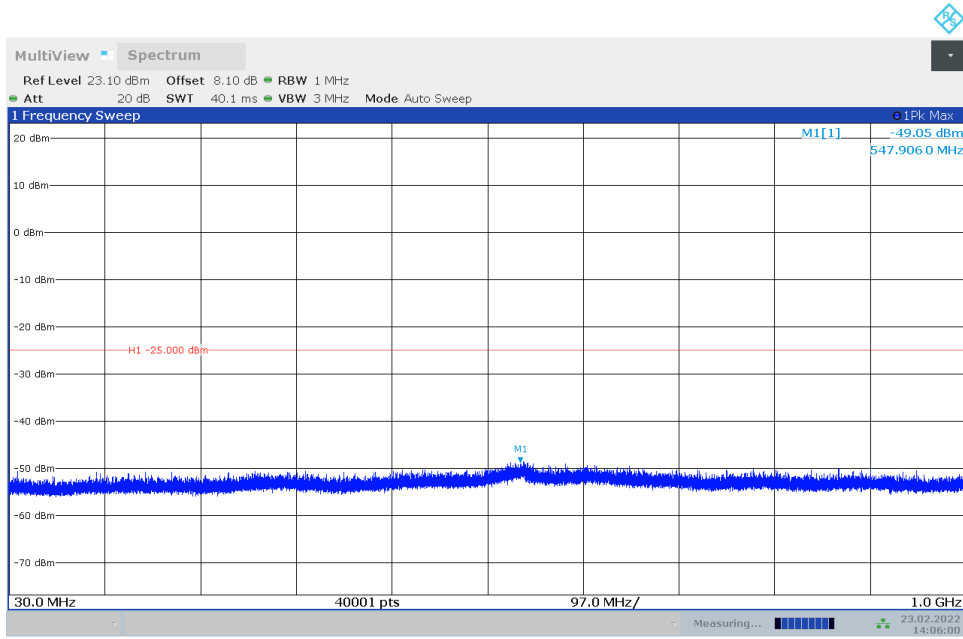
14:00:08 23.02.2022



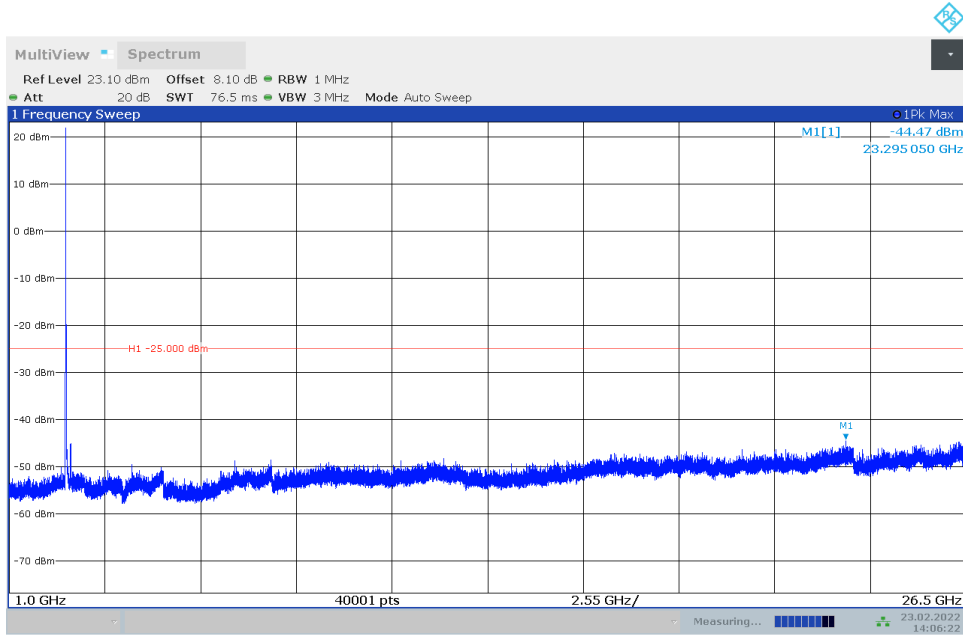
15:29:47 23.02.2022

6.2.32 CA_7C_TM3_LCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0





14:06:00 23.02.2022

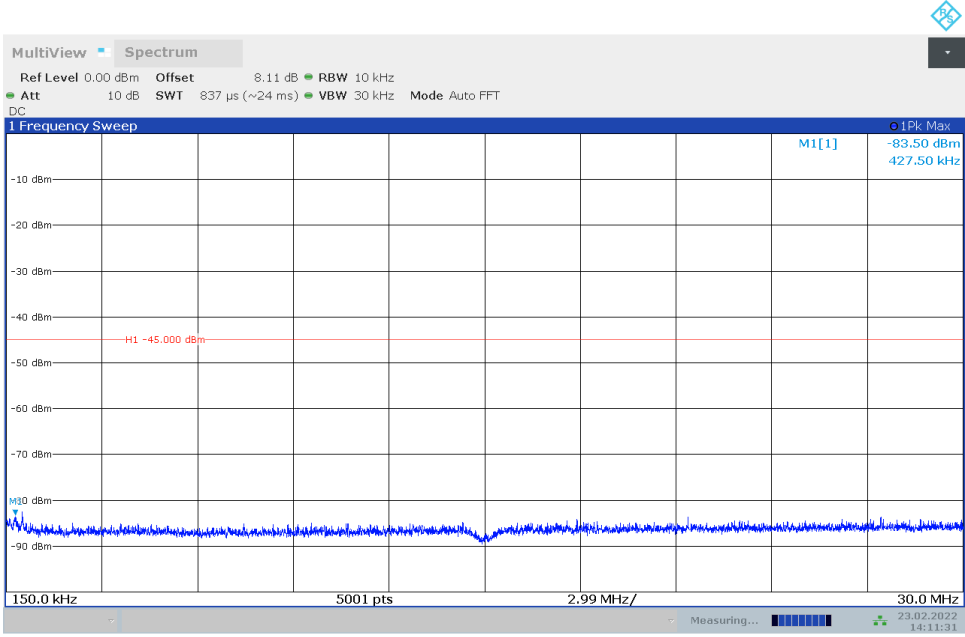


14:06:22 23.02.2022

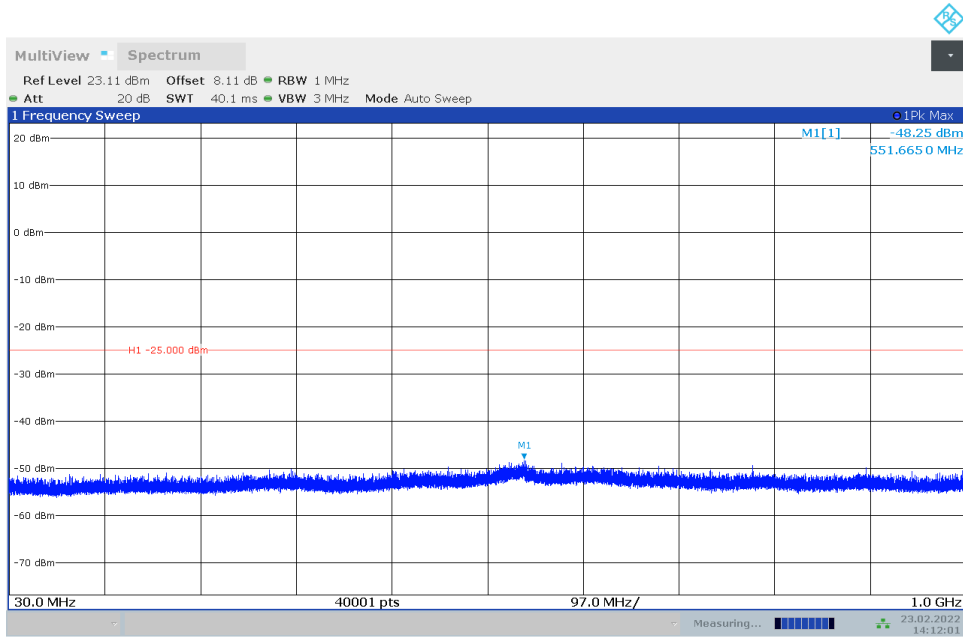
6.2.33 CA_7C_TM3_MCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



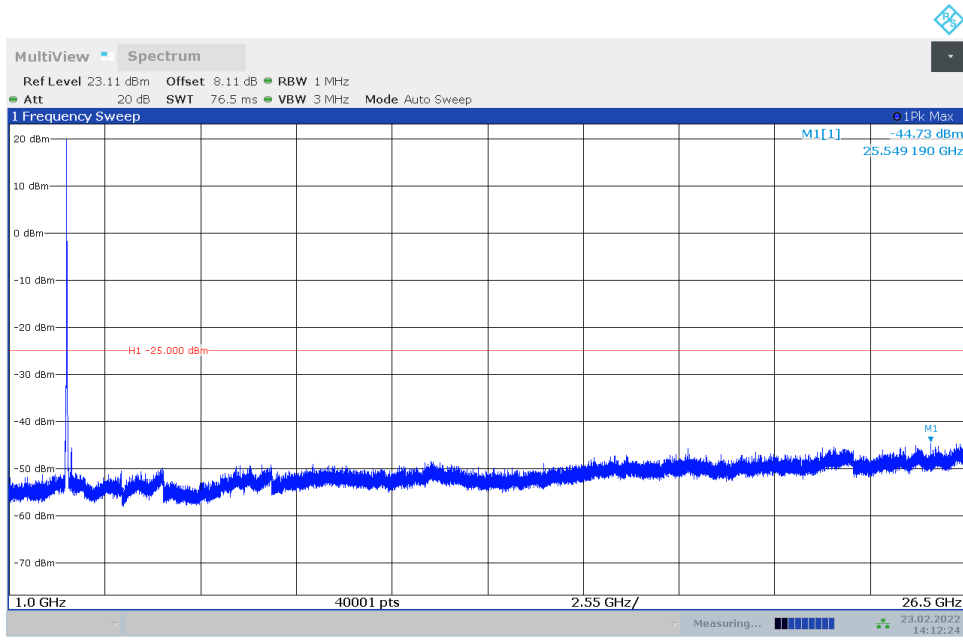
14:11:01 23.02.2022



14:11:32 23.02.2022

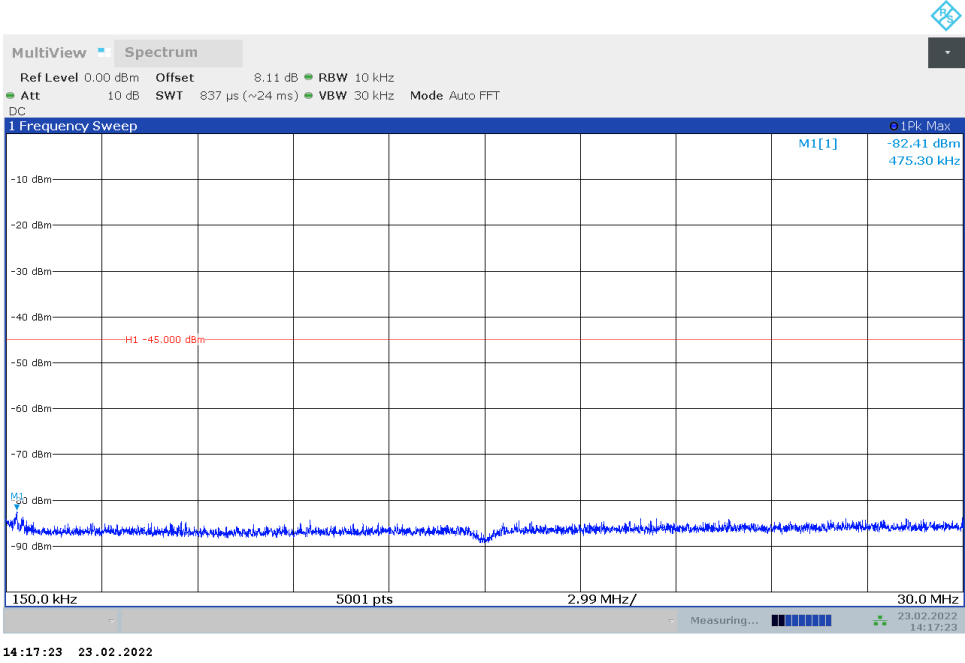
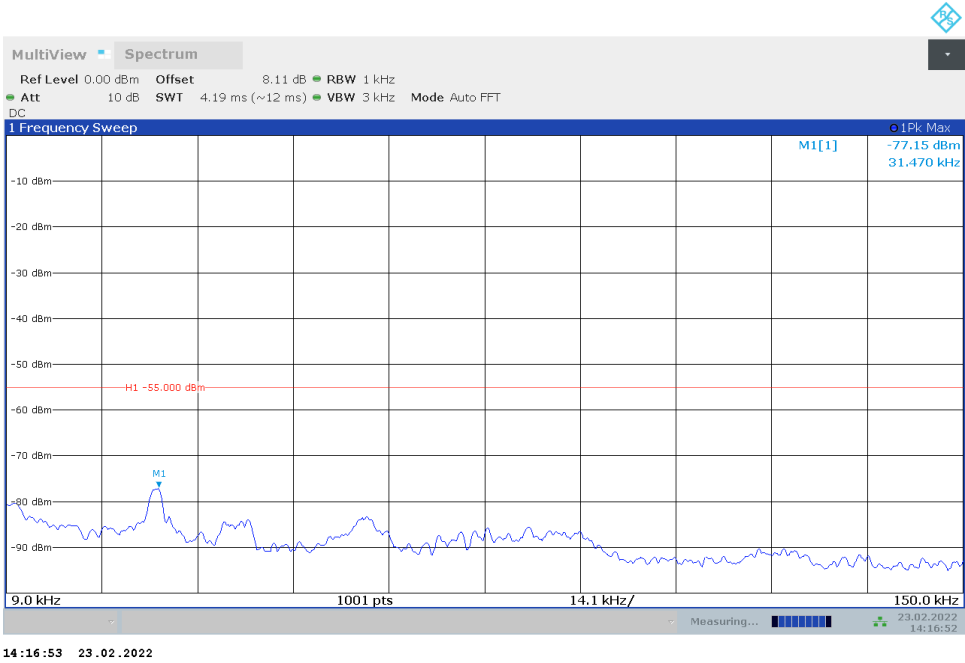


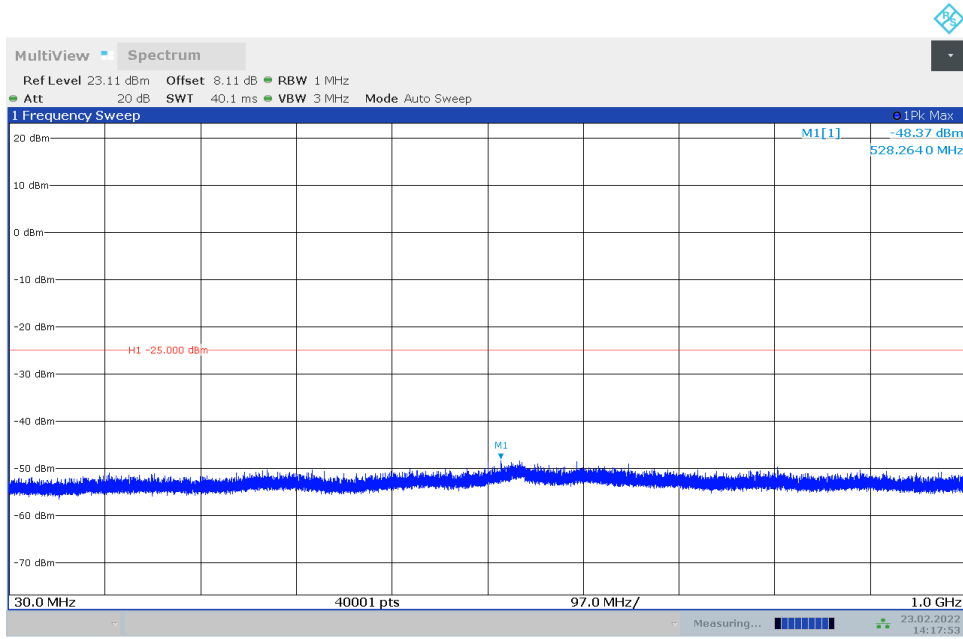
14:12:02 23.02.2022



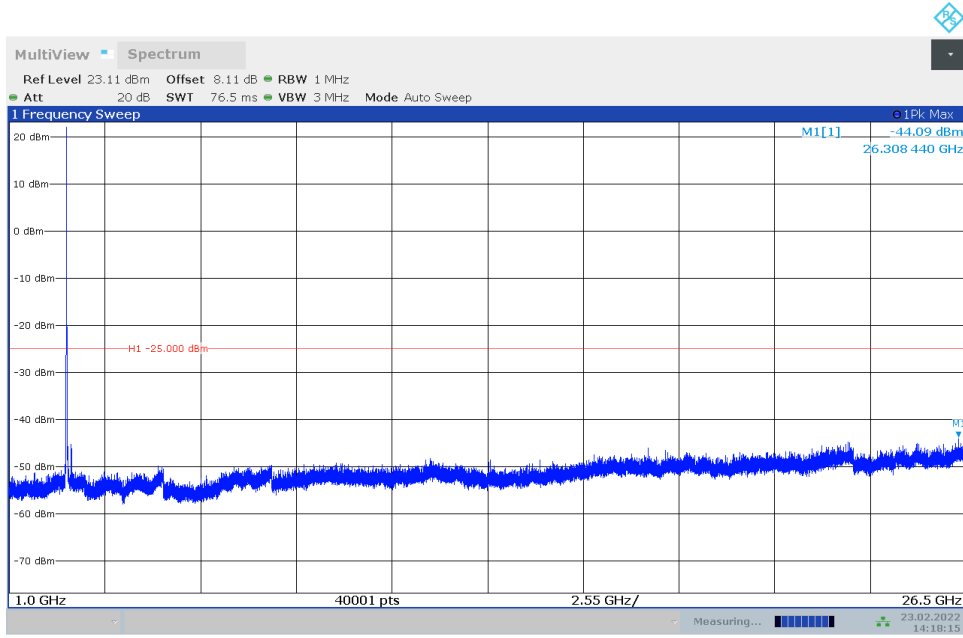
14:12:24 23.02.2022

6.2.34 CA_7C_TM3_MCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0



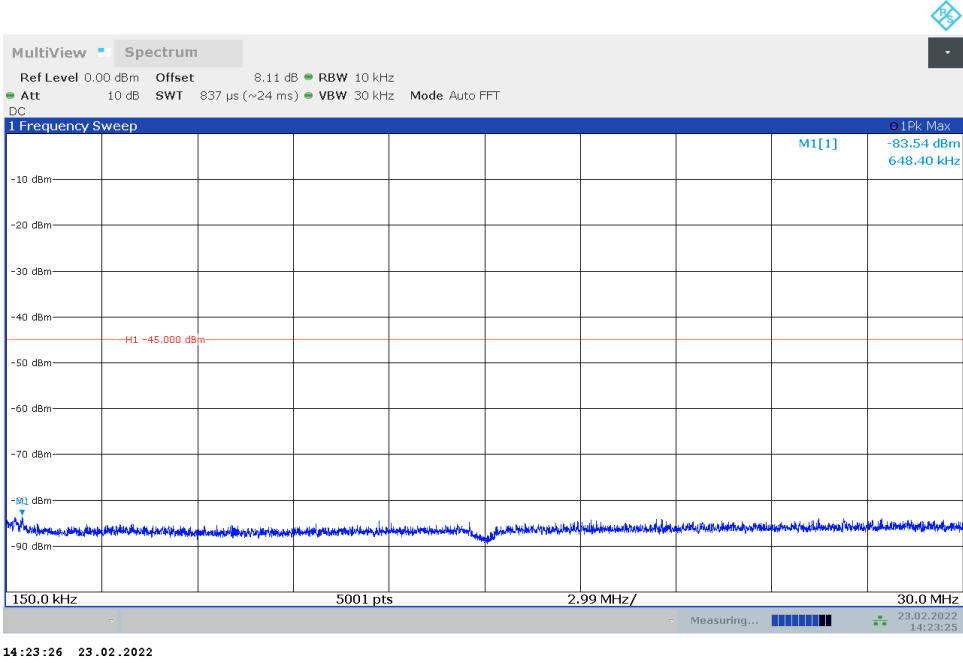
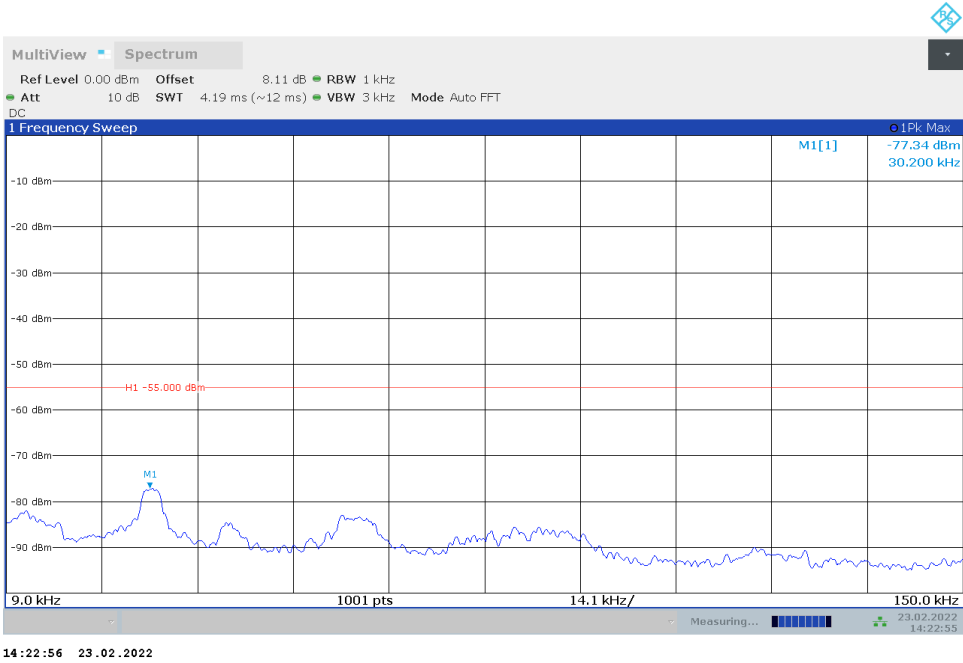


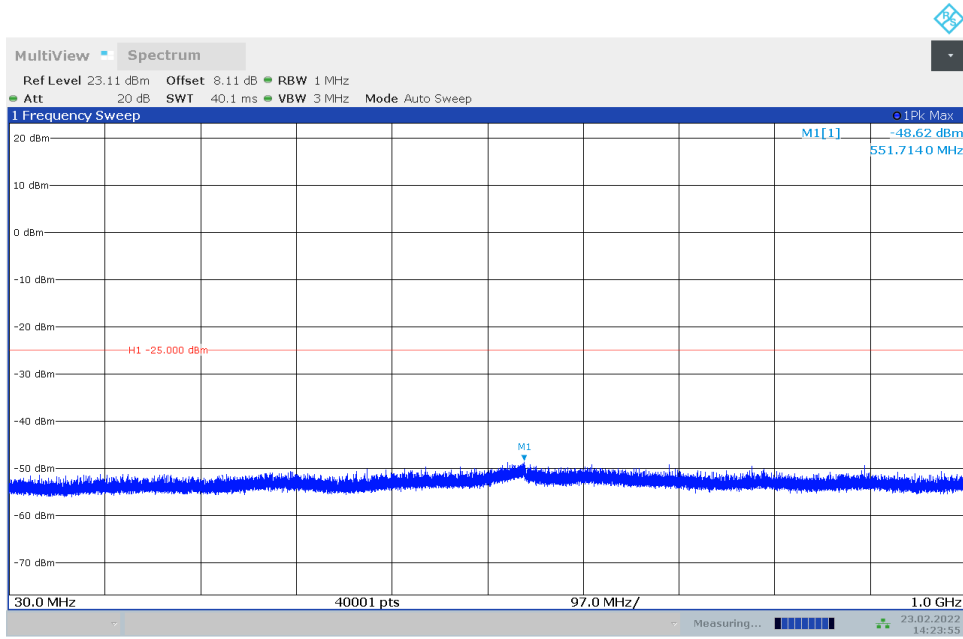
14:17:53 23.02.2022



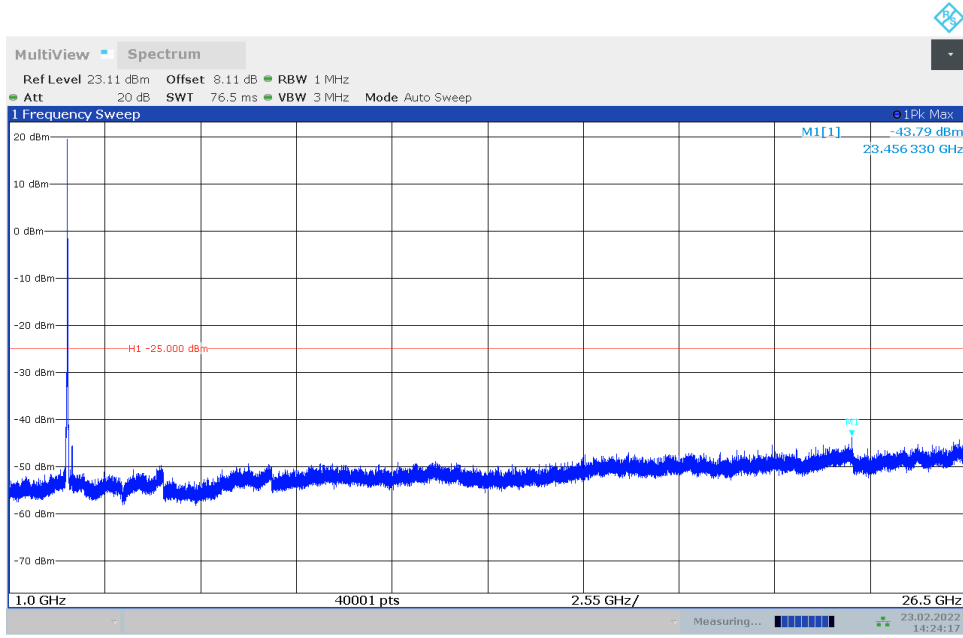
14:18:16 23.02.2022

6.2.35 CA_7C_TM3_HCH_15MHZ_15MHZ_PCCRB75#0_SCCRB75#0



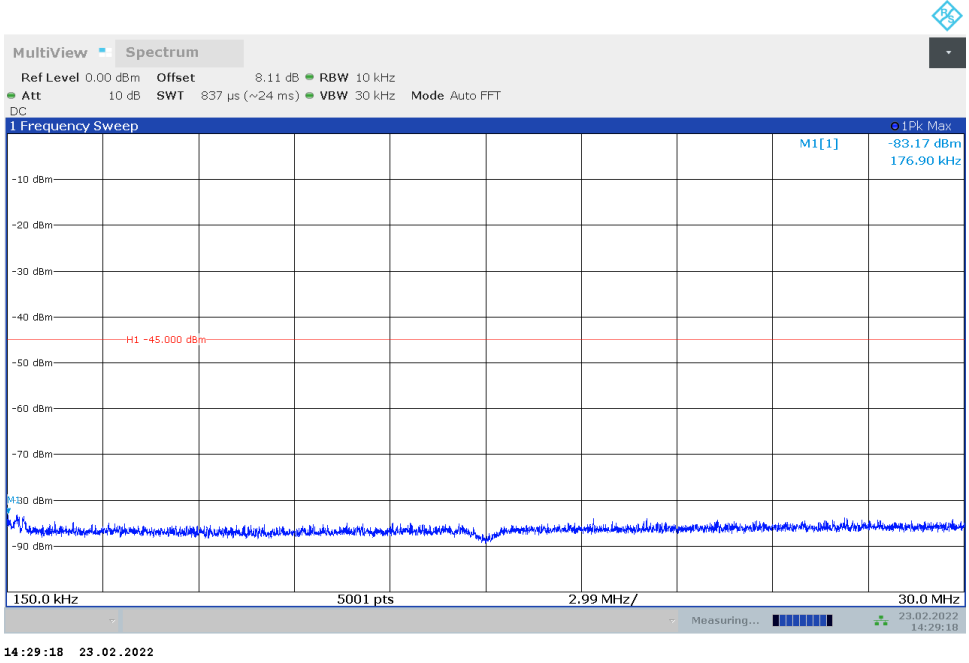
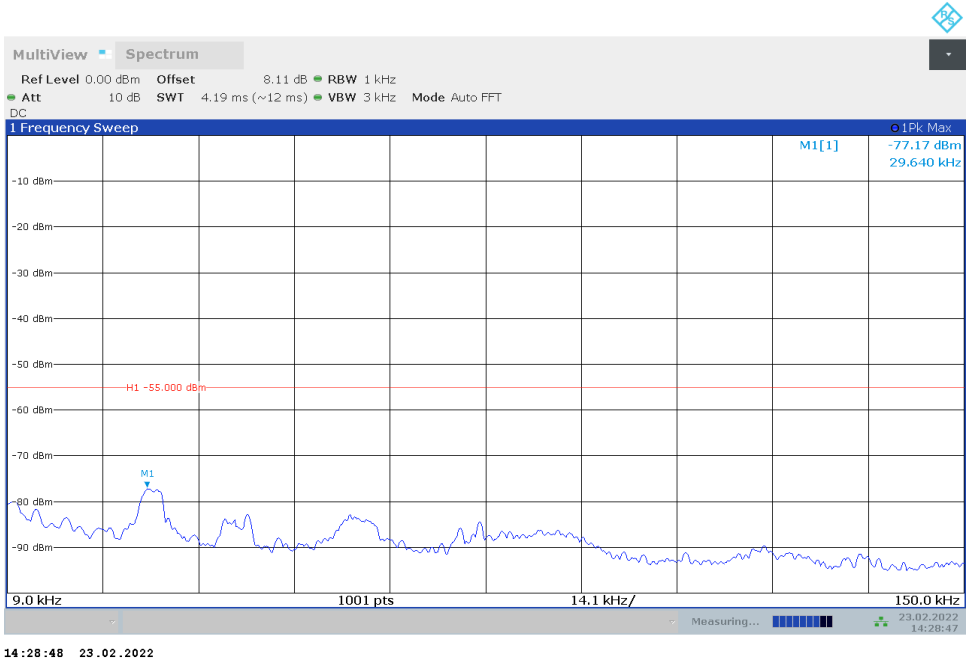


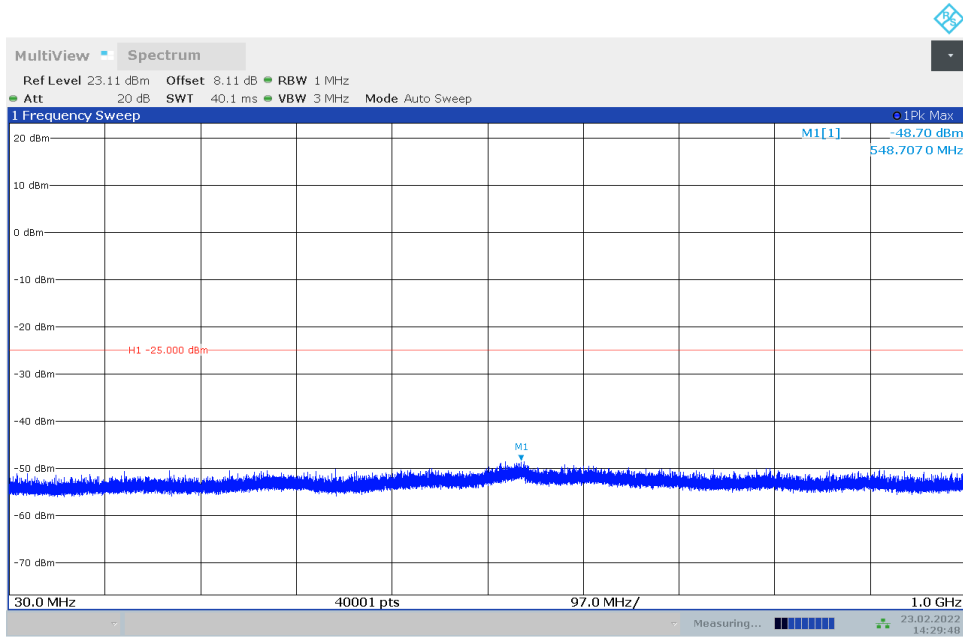
14:23:56 23.02.2022



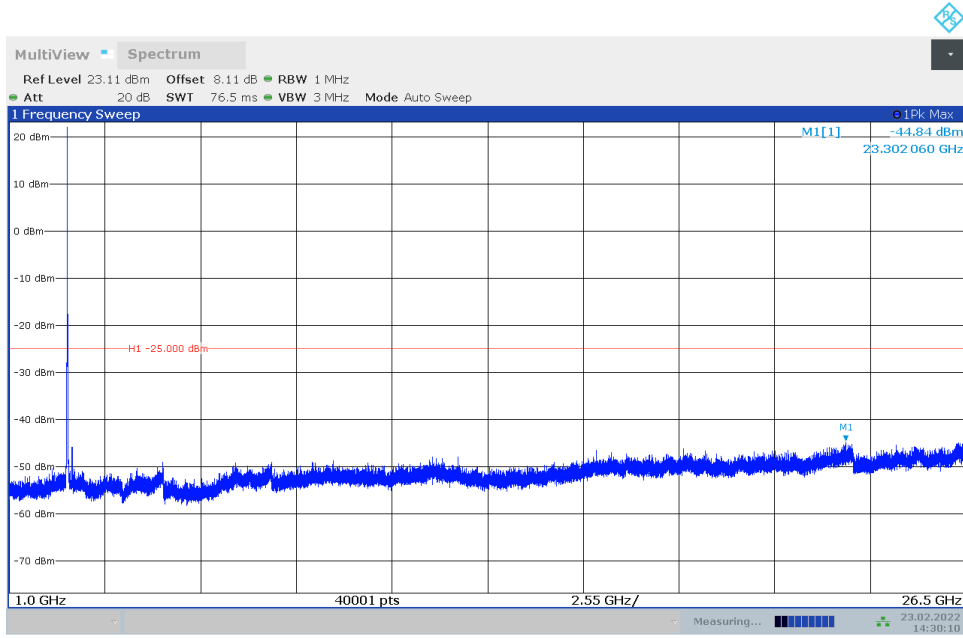
14:24:18 23.02.2022

6.2.36 CA_7C_TM3_HCH_15MHZ_15MHZ_PCCRB1#0_SCCRB0#0





14:29:48 23.02.2022



14:30:11 23.02.2022

7. APPENDIX G - FREQUENCY STABILITY

7.1 TEST RESULTS

7.1.1 FREQUENCY ERROR VS. VOLTAGE

Frequency Error vs. Voltage									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM1	20+20	LCH	QPSK	TN	VH	4.23	0.002	PASS
				QPSK	TN	VN	-9.14	-0.004	PASS
				QPSK	TN	VL	-8.51	-0.003	PASS
			MCH	QPSK	TN	VH	23.92	0.009	PASS
				QPSK	TN	VN	35.17	0.014	PASS
				QPSK	TN	VL	14.43	0.006	PASS
			HCH	QPSK	TN	VH	7.34	0.003	PASS
				QPSK	TN	VN	-8.22	-0.003	PASS
				QPSK	TN	VL	11.02	0.004	PASS
		15+15	LCH	QPSK	TN	VH	7.27	0.003	PASS
				QPSK	TN	VN	4.48	0.002	PASS
				QPSK	TN	VL	1.76	0.001	PASS
			MCH	QPSK	TN	VH	4.54	0.002	PASS
				QPSK	TN	VN	7.72	0.003	PASS
				QPSK	TN	VL	-7.22	-0.003	PASS
			HCH	QPSK	TN	VH	5.02	0.002	PASS
				QPSK	TN	VN	2.18	0.001	PASS
				QPSK	TN	VL	-0.48	0	PASS

Frequency Error vs. Voltage									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM2	20+20	LCH	16QAM	TN	VH	-5.6	-0.002	PASS
				16QAM	TN	VN	14.7	0.006	PASS
				16QAM	TN	VL	13.19	0.005	PASS
			MCH	16QAM	TN	VH	21.3	0.008	PASS
				16QAM	TN	VN	21.53	0.009	PASS
				16QAM	TN	VL	10.97	0.004	PASS
			HCH	16QAM	TN	VH	7.09	0.003	PASS
				16QAM	TN	VN	14.14	0.006	PASS
				16QAM	TN	VL	9.72	0.004	PASS
		15+15	LCH	16QAM	TN	VH	0.74	0	PASS
				16QAM	TN	VN	2.77	0.001	PASS
				16QAM	TN	VL	0.85	0	PASS
			MCH	16QAM	TN	VH	5.65	0.002	PASS
				16QAM	TN	VN	14.86	0.006	PASS
				16QAM	TN	VL	17.33	0.007	PASS
			HCH	16QAM	TN	VH	7.86	0.003	PASS
				16QAM	TN	VN	12.84	0.005	PASS
				16QAM	TN	VL	5.97	0.002	PASS

Frequency Error vs. Voltage									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Temp.	Test Volt.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM3	20+20	LCH	64QAM	TN	VH	1.09	0	PASS
				64QAM	TN	VN	3.96	0.002	PASS
				64QAM	TN	VL	8.88	0.004	PASS
			MCH	64QAM	TN	VH	-0.71	0	PASS
				64QAM	TN	VN	27.68	0.011	PASS
				64QAM	TN	VL	27.42	0.011	PASS
			HCH	64QAM	TN	VH	22.1	0.009	PASS
				64QAM	TN	VN	24.45	0.01	PASS
				64QAM	TN	VL	14.13	0.006	PASS
		15+15	LCH	64QAM	TN	VH	6.8	0.003	PASS
				64QAM	TN	VN	-2.53	-0.001	PASS
				64QAM	TN	VL	10.12	0.004	PASS
			MCH	64QAM	TN	VH	10.51	0.004	PASS
				64QAM	TN	VN	3.41	0.001	PASS
				64QAM	TN	VL	-1.99	-0.001	PASS
			HCH	64QAM	TN	VH	8.25	0.003	PASS
				64QAM	TN	VN	5.31	0.002	PASS
				64QAM	TN	VL	13.82	0.005	PASS

7.1.2 FREQUENCY ERROR VS. TEMPERATURE

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM1	20+20	LCH	QPSK	VN	-30	-0.23	0	PASS
			MCH	QPSK	VN	-30	27.57	0.011	PASS
			HCH	QPSK	VN	-30	9.99	0.004	PASS
		15+15	LCH	QPSK	VN	-30	-3.16	-0.001	PASS
			MCH	QPSK	VN	-30	2.27	0.001	PASS
			HCH	QPSK	VN	-30	-0.45	0	PASS
		20+20	LCH	QPSK	VN	-20	-17.77	-0.007	PASS
			MCH	QPSK	VN	-20	30.73	0.012	PASS
			HCH	QPSK	VN	-20	13.56	0.005	PASS
		15+15	LCH	QPSK	VN	-20	-0.11	0	PASS
			MCH	QPSK	VN	-20	3.1	0.001	PASS
			HCH	QPSK	VN	-20	14.02	0.006	PASS
		20+20	LCH	QPSK	VN	-10	-2.8	-0.001	PASS
			MCH	QPSK	VN	-10	-15.7	-0.006	PASS
			HCH	QPSK	VN	-10	10.92	0.004	PASS
		15+15	LCH	QPSK	VN	-10	-0.45	0	PASS
			MCH	QPSK	VN	-10	2.62	0.001	PASS
			HCH	QPSK	VN	-10	3.56	0.001	PASS
		20+20	LCH	QPSK	VN	0	-12.56	-0.005	PASS
			MCH	QPSK	VN	0	29.44	0.012	PASS
			HCH	QPSK	VN	0	-10.69	-0.004	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM1	15+15	LCH	QPSK	VN	0	10.4	0.004	PASS
			MCH	QPSK	VN	0	-1.31	-0.001	PASS
			HCH	QPSK	VN	0	6.49	0.003	PASS
		20+20	LCH	QPSK	VN	10	7.08	0.003	PASS
			MCH	QPSK	VN	10	27.42	0.011	PASS
			HCH	QPSK	VN	10	11.48	0.005	PASS
		15+15	LCH	QPSK	VN	10	-0.99	0	PASS
			MCH	QPSK	VN	10	-0.19	0	PASS
			HCH	QPSK	VN	10	5.06	0.002	PASS
		20+20	LCH	QPSK	VN	20	3.04	0.001	PASS
			MCH	QPSK	VN	20	21.71	0.009	PASS
			HCH	QPSK	VN	20	12.87	0.005	PASS
		15+15	LCH	QPSK	VN	20	-4.93	-0.002	PASS
			MCH	QPSK	VN	20	0.37	0	PASS
			HCH	QPSK	VN	20	10.67	0.004	PASS
		20+20	LCH	QPSK	VN	30	-15.48	-0.006	PASS
			MCH	QPSK	VN	30	-3.69	-0.001	PASS
			HCH	QPSK	VN	30	13.55	0.005	PASS
		15+15	LCH	QPSK	VN	30	4.9	0.002	PASS
			MCH	QPSK	VN	30	-5.49	-0.002	PASS
			HCH	QPSK	VN	30	5.29	0.002	PASS
		20+20	LCH	QPSK	VN	40	-1.85	-0.001	PASS
			MCH	QPSK	VN	40	0.01	0	PASS
			HCH	QPSK	VN	40	1.21	0	PASS
		15+15	LCH	QPSK	VN	40	4.58	0.002	PASS
			MCH	QPSK	VN	40	-0.44	0	PASS
			HCH	QPSK	VN	40	13.54	0.005	PASS
		20+20	LCH	QPSK	VN	50	-6.83	-0.003	PASS
			MCH	QPSK	VN	50	34.44	0.014	PASS
			HCH	QPSK	VN	50	4.49	0.002	PASS
		15+15	LCH	QPSK	VN	50	10	0.004	PASS
			MCH	QPSK	VN	50	2.27	0.001	PASS
			HCH	QPSK	VN	50	10.34	0.004	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM2	20+20	LCH	16QAM	VN	-30	15.82	0.006	PASS
			MCH	16QAM	VN	-30	27	0.011	PASS
			HCH	16QAM	VN	-30	21.45	0.008	PASS
		15+15	LCH	16QAM	VN	-30	-3.84	-0.002	PASS
			MCH	16QAM	VN	-30	7.17	0.003	PASS
			HCH	16QAM	VN	-30	9.7	0.004	PASS
		20+20	LCH	16QAM	VN	-20	15.35	0.006	PASS
			MCH	16QAM	VN	-20	12.73	0.005	PASS
			HCH	16QAM	VN	-20	21.11	0.008	PASS
		15+15	LCH	16QAM	VN	-20	1.68	0.001	PASS
			MCH	16QAM	VN	-20	15.31	0.006	PASS
			HCH	16QAM	VN	-20	1.52	0.001	PASS
		20+20	LCH	16QAM	VN	-10	9.37	0.004	PASS
			MCH	16QAM	VN	-10	29.52	0.012	PASS
			HCH	16QAM	VN	-10	-6.24	-0.002	PASS
		15+15	LCH	16QAM	VN	-10	0.43	0	PASS
			MCH	16QAM	VN	-10	2.25	0.001	PASS
			HCH	16QAM	VN	-10	3.13	0.001	PASS
		20+20	LCH	16QAM	VN	0	14.39	0.006	PASS
			MCH	16QAM	VN	0	3.43	0.001	PASS
			HCH	16QAM	VN	0	5.44	0.002	PASS
		15+15	LCH	16QAM	VN	0	-1.31	-0.001	PASS
			MCH	16QAM	VN	0	4.31	0.002	PASS
			HCH	16QAM	VN	0	6.08	0.002	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM2	20+20	LCH	16QAM	VN	10	7.13	0.003	PASS
			MCH	16QAM	VN	10	26.41	0.01	PASS
			HCH	16QAM	VN	10	0.07	0	PASS
		15+15	LCH	16QAM	VN	10	-0.07	0	PASS
			MCH	16QAM	VN	10	12	0.005	PASS
			HCH	16QAM	VN	10	14.3	0.006	PASS
		20+20	LCH	16QAM	VN	20	15.46	0.006	PASS
			MCH	16QAM	VN	20	12.27	0.005	PASS
			HCH	16QAM	VN	20	8.1	0.003	PASS
		15+15	LCH	16QAM	VN	20	0.67	0	PASS
			MCH	16QAM	VN	20	6.41	0.003	PASS
			HCH	16QAM	VN	20	-1.85	-0.001	PASS
		20+20	LCH	16QAM	VN	30	18.45	0.007	PASS
			MCH	16QAM	VN	30	5.92	0.002	PASS
			HCH	16QAM	VN	30	20.76	0.008	PASS
		15+15	LCH	16QAM	VN	30	0.96	0	PASS
			MCH	16QAM	VN	30	2.66	0.001	PASS
			HCH	16QAM	VN	30	-0.21	0	PASS
		20+20	LCH	16QAM	VN	40	4.52	0.002	PASS
			MCH	16QAM	VN	40	3.8	0.002	PASS
			HCH	16QAM	VN	40	3.55	0.001	PASS
		15+15	LCH	16QAM	VN	40	0.3	0	PASS
			MCH	16QAM	VN	40	8.5	0.003	PASS
			HCH	16QAM	VN	40	12.8	0.005	PASS
		20+20	LCH	16QAM	VN	50	10.66	0.004	PASS
			MCH	16QAM	VN	50	2.77	0.001	PASS
			HCH	16QAM	VN	50	15.75	0.006	PASS
		15+15	LCH	16QAM	VN	50	-0.98	0	PASS
			MCH	16QAM	VN	50	4.06	0.002	PASS
			HCH	16QAM	VN	50	6.18	0.002	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM3	20+20	LCH	64QAM	VN	-30	-6.25	-0.002	PASS
			MCH	64QAM	VN	-30	-6.2	-0.002	PASS
			HCH	64QAM	VN	-30	13.28	0.005	PASS
		15+15	LCH	64QAM	VN	-30	1.21	0	PASS
			MCH	64QAM	VN	-30	-1.48	-0.001	PASS
			HCH	64QAM	VN	-30	4.44	0.002	PASS
		20+20	LCH	64QAM	VN	-20	17.18	0.007	PASS
			MCH	64QAM	VN	-20	22.33	0.009	PASS
			HCH	64QAM	VN	-20	2.9	0.001	PASS
		15+15	LCH	64QAM	VN	-20	6.1	0.002	PASS
			MCH	64QAM	VN	-20	2.34	0.001	PASS
			HCH	64QAM	VN	-20	11.14	0.004	PASS
		20+20	LCH	64QAM	VN	-10	-5.19	-0.002	PASS
			MCH	64QAM	VN	-10	24.75	0.01	PASS
			HCH	64QAM	VN	-10	13.79	0.005	PASS
		15+15	LCH	64QAM	VN	-10	3.58	0.001	PASS
			MCH	64QAM	VN	-10	-0.3	0	PASS
			HCH	64QAM	VN	-10	11.11	0.004	PASS
		20+20	LCH	64QAM	VN	0	4.32	0.002	PASS
			MCH	64QAM	VN	0	2.75	0.001	PASS
			HCH	64QAM	VN	0	0.47	0	PASS
		15+15	LCH	64QAM	VN	0	7.13	0.003	PASS
			MCH	64QAM	VN	0	9.45	0.004	PASS
			HCH	64QAM	VN	0	1.75	0.001	PASS

Frequency Error vs. Temperature									
Test Band	Test Mode	Test Bandwidth (MHz)	Test Channel	Modulation	Test Volt.	Test Temp.	Freq. Error [Hz]	Freq. vs. rated [ppm]	Verdict
CA_7C	TM3	20+20	LCH	64QAM	VN	10	16.03	0.006	PASS
			MCH	64QAM	VN	10	19.28	0.008	PASS
			HCH	64QAM	VN	10	2.69	0.001	PASS
		15+15	LCH	64QAM	VN	10	4.82	0.002	PASS
			MCH	64QAM	VN	10	8.64	0.003	PASS
			HCH	64QAM	VN	10	4.68	0.002	PASS
		20+20	LCH	64QAM	VN	20	12.72	0.005	PASS
			MCH	64QAM	VN	20	2.14	0.001	PASS
			HCH	64QAM	VN	20	13.25	0.005	PASS
		15+15	LCH	64QAM	VN	20	-0.9	0	PASS
			MCH	64QAM	VN	20	5.16	0.002	PASS
			HCH	64QAM	VN	20	7.73	0.003	PASS
		20+20	LCH	64QAM	VN	30	-0.24	0	PASS
			MCH	64QAM	VN	30	-3.2	-0.001	PASS
			HCH	64QAM	VN	30	23.79	0.009	PASS
		15+15	LCH	64QAM	VN	30	-2.22	-0.001	PASS
			MCH	64QAM	VN	30	6.82	0.003	PASS
			HCH	64QAM	VN	30	10.38	0.004	PASS
		20+20	LCH	64QAM	VN	40	-4.26	-0.002	PASS
			MCH	64QAM	VN	40	20.86	0.008	PASS
			HCH	64QAM	VN	40	3.19	0.001	PASS
		15+15	LCH	64QAM	VN	40	1.82	0.001	PASS
			MCH	64QAM	VN	40	11.28	0.004	PASS
			HCH	64QAM	VN	40	2.59	0.001	PASS
		20+20	LCH	64QAM	VN	50	-4.63	-0.002	PASS
			MCH	64QAM	VN	50	7.61	0.003	PASS
			HCH	64QAM	VN	50	10.14	0.004	PASS
		15+15	LCH	64QAM	VN	50	-4.89	-0.002	PASS
			MCH	64QAM	VN	50	3.01	0.001	PASS
			HCH	64QAM	VN	50	0.95	0	PASS

End of Test Report